



GP 2699
\$

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

PATENT

RECEIVED

MAY 15 2001

Group 2600

In re Application of:

John C. Harvey and James W. Cuddihy:

Group Art Unit: 2699

Serial No.: 08/447,974

Examiner: Luther, W.

Filed: May 23, 1995

Atty Dkt: 05634.0145

For: **SIGNAL PROCESSING APPARATUS
AND METHODS**

TRANSMITTAL LETTER

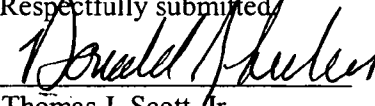
BOX: Fee Amendment

Assistant Commissioner of Patents
Washington, D.C. 20231

Applicants include in this communication:

- ☒ Information Disclosure Statement;
- ☒ PTO Form 1449;
- ☒ Check No. 3442 for \$180.00;
- ☒ Appendices A-E;
- ☒ The Commissioner is hereby authorized to charge any additional fees, or credit any overpayment to Deposit Account No. 50-0206.
 - ☒ Any filing fees under 37 CFR 1.16 for the presentation of extra claims.
 - ☒ Any patent application processing fees under 37 CFR 1.17.

Date: May 11, 2001
HUNTON & WILLIAMS
1900 K Street, NW,
12th Floor
Washington, D.C. 20006

Respectfully submitted,

Thomas J. Scott, Jr.
Registration No. 27,836
Donald J. Lecher
Registration No. 41,933
Attorneys for Applicants
Tel: (202) 955-1938



Serial No. 08/447,974
Docket No. 5634.0145

6-92
NP

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

RECEIVED

MAY 15 2001

Group 2600

In re Application of:

John C. Harvey and James W. Cuddihy:

Group Art Unit: 2699

Serial No.: 08/447,974

Examiner: Luther, W.

Filed: May 23, 1995

Atty Dkt: 05634.0145

For: **SIGNAL PROCESSING APPARATUS
AND METHODS**

Information Disclosure Statement

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

Listed on accompanying Form PTO-1449 are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98.

Where the publication date of a listed document does not provide a month of publication, the year of publication of the listed document is sufficiently earlier than the effective U.S. filing date and any foreign priority date so that the month of publication is not in issue. Applicants have listed publication dates on the attached PTO-1449 based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

COMMUNICATION ELECTRONIC 00000000 08/447974

01 02/00

10/00 25

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /MM/

This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent application does not exist. The Examiner is specifically requested not to rely solely on the material submitted herewith. It is further understood that the Examiner will consider information that had been cited by or submitted to the U.S. Patent and Trademark Office in a prior application relied on under 35 U.S.C. § 120. 1138 OG 37, 38 (May 19, 1992).

Applicants have checked the appropriate boxes below.

- ☐ 1. This Information Disclosure Statement is being filed within three months of the U.S. filing date OR before the mailing date of a first Office Action on the merits. No statement under 37 C.F.R. § 1.97(e) or fee is required. 37 C.F.R. § 1.97(b).
- ☒ 2. This Information Disclosure Statement is being filed more than three months after the U.S. filing date AND after the mailing date of the first Office Action on the merits, but before the mailing date of a Final Rejection or Notice of Allowance. 37 C.F.R. § 1.97(c).
 - ☐ a. I hereby state that each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(1).
 - ☐ b. I hereby state that no item of information in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to my knowledge after making reasonable inquiry, no item of information contained in this Information Disclosure Statement was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(2).
 - ☒ c. Attached is our Check No. 3442 in the amount of \$180.00 in payment of the fee under 37 C.F.R. § 1.17(p).

- ☐ 3. This Information Disclosure Statement is being filed more than three months after the U.S. filing date and after the mailing date of a Final Rejection or Notice of Allowance, but before payment of the Issue Fee. It is hereby requested that the Information Disclosure Statement be considered. Attached is our Check No. 3442 in the amount of \$180.00 in payment of the fee under 37 C.F.R. § 1.17(i). 37 C.F.R. § 1.97(d).
- ☐ a. I hereby state that each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(1).
- ☐ b. I hereby state that no item of information in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to my knowledge after making reasonable inquiry, no item of information contained in this Information Disclosure Statement was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(2).
- ☐ c. An accompanying petition requesting consideration of this Information Disclosure Statement and the petition fee set forth in 37 C.F.R. § 1.17(i) are included with this communication. 37 C.F.R. § 1.97(d)(2) & (3).
- ☐ 4. Relevance of the non-English language document(s) is discussed in the present specification. 37 C.F.R. § 1.98(a)(3).
- ☒ 5. A concise explanation of the relevance of the non-English language document(s) appears below in Appendix A. 37 C.F.R. § 1.98(a)(3).
- ☒ 6. Some documents were cited in corresponding foreign applications.
- ☒ 7. The Examiner's attention is directed to Applicants' co-pending U.S. Patent Applications that are directed to related technical subject matter. The identification of this U.S. Patent Application is not to be construed as a waiver of secrecy as to that application now or upon issuance of the present application as a patent. The Examiner is respectfully requested to consider the cited application

and the art cited therein during examination. 37 C.F.R. § 1.98(d). Attached hereto is Appendix B listing Applicants' related applications, and Appendix C that lists the prior art previously cited by the PTO in those applications.

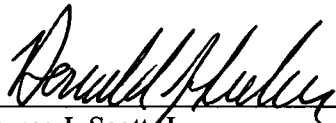
- [X] 1. Copies of the documents were cited by or submitted to the Office in Applicants' Applications listed in Appendix D which are relied upon for an earlier filing date under 35 U.S.C. § 120. Thus, copies of these documents are not attached. 37 C.F.R. § 1.98(d). Applicants submit Appendix E which contains a list of all references not hereto previously cited in the instant application.

It is respectfully requested that the Examiner initial and return a copy of the enclosed PTO-1449, and to indicate in the official file wrapper of this patent application that the documents have been considered.

A single set of copied references required by 37 C.F.R. § 1.98(a) have been submitted in conjunction with this communication in Applicant's application number 08/113,329 in compliance with the PTO's instructions in the First Office Action of the above referenced application.

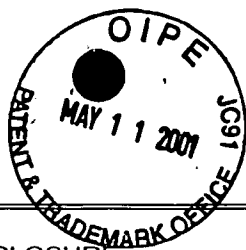
The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 50-0206.

Respectfully submitted,



Thomas J. Scott, Jr.
Registration No. 27,836
Donald J. Lecher
Registration No. 41,933
Attorneys for Applicants
Tel: (202) 955-1938

Date: May 11, 2001
HUNTON & WILLIAMS
1900 K Street, NW,
12th Floor
Washington, D.C. 20006



Serial No. 08/447,974
Docket No. 5634.0145

| | | | |
|---|---|------------------------|---------------------------------------|
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT CITATION FORM | Attorney Docket No. | Serial No. | RECEIVED MAY 15 2001 Group 2600 |
| | 05634.0145 | 08/447,974 | |
| | Applicant(s) John C. Harvey and James W. Cuddihy | | |
| | Filing Date May 23, 1995 | Group Art Unit 2699 | |

UNITED STATES PATENT DOCUMENTS

| EXAMINER INITIAL | PATENT NUMBER | PATENT DATE | NAME | CLASS/ SUBCLASS | FILING DATE* |
|---------------------|------------------|--------------------|------------------|--------------------|--------------------|
| | 1,927,702 | September 19, 1933 | Foss | 705/36 | December 3, 1932 |
| | 2,511,085 | June 13, 1950 | Smith | 381/104 | November 15, 1946 |
| | 2,573,349 | October 30, 1951 | Miller et al. | 725/14 | December 9, 1949 |
| | 2,769,023 | October 30, 1956 | Loew et al. | 725/143 | January 19, 1950 |
| | 2,788,387 | April 9, 1957 | Druz | 380/320 | October 2, 1951 |
| | 2,864,865 | December 16, 1958 | Morris | 568/430 | May 4, 1955 |
| | 2,866,962 | December 30, 1958 | Ellet | 380/227 | December 6, 1955 |
| | 2,969,427 | January 24, 1961 | See | 348/705 | May 27, 1957 |
| | 3,008,000 | November 7, 1961 | Morchand | 725/138 | September 11, 1958 |
| | 3,016,091 | January 9, 1962 | Daniele | 162/391 | August 11, 1960 |
| | 3,071,642 | January 1, 1963 | Mountjoy et al. | 725/151 | February 21, 1957 |
| | 3,213,201 | October 19, 1965 | Flood et al. | 370/381 | July 2, 1962 |
| | 3,238,297 | March 1, 1966 | Pawley et al. | 380/240 | July 8, 1951 |
| | 3,244,806 | April 5, 1966 | Morris | 725/151 | January 30, 1962 |
| | 3,363,250 | January 9, 1968 | Jacobson | 340/825.17 | July 20, 1965 |
| | 3,371,071 | February 27, 1968 | Webb | 428/355EN | January 18, 1965 |
| | 3,387,268 | June 4, 1968 | Epstein | 340/825.26 | September 9, 1963 |
| | 3,531,583 | September 29, 1970 | Walker | 380/230 | July 28, 1966 |
| | 3,531,586 | September 29, 1970 | Bass et al. | 725/151 | April 19, 1965 |
| | 3,536,833 | October 27, 1970 | Guanella | 380/28 | July 8, 1965 |
| | 3,569,937 | March 9, 1971 | Hoetter | 340/825.75 | November 6, 1968 |
| | 3,573,747 | April 6, 1971 | Adams et al. | 705/37 | February 24, 1969 |
| | 3,586,767 | June 22, 1971 | Morchand | 348/473 | June 4, 1968 |
| | 3,586,771 | June 22, 1971 | Hamburger et al. | 725/1 | October 25, 1968 |
| | 3,601,528 | August 24, 1971 | McVoy | 724/143 | June 16, 1969 |
| | 3,606,688 | April 24, 1971 | Zawels et al. | 434/323 | July 11, 1969 |
| | 3,609,697 | September 28, 1971 | Blevins et al. | 717/2 | October 21, 1968 |
| | 3,627,914 | December 14, 1971 | Davies | 348/722 | September 4, 1969 |
| | 3,648,270 | March 7, 1972 | Metz et al. | 345/24 | August 11, 1969 |
| | 3,657,699 | April 18, 1972 | Rocher et al. | 380/265 | June 30, 1970 |
| | 3,659,046 | April 5, 1972 | Angeleri et al. | 380/43 | May 13, 1969 |
| | 3,676,580 | July 11, 1972 | Beck | 725/16 | June 1, 1970 |
| | 3,693,090 | September 29, 1972 | Gabriel | 725/1 | August 8, 1969 |
| | 3,703,684 | November 21, 1972 | McVoy | 725/16 | June 25, 1971 |
| | 3,716,835 | February 13, 1973 | Weinberg | 340/825.27 | March 19, 1971 |
| | 3,725,672 | April 3, 1973 | Reuter | 327/176 | July 30, 1971 |

RECEIVED

MAY 15 2004

Serial No. 08/447,974
Docket No. 5634.0145

Group 2600

| EXAMINER INITIAL | PATENT NUMBER | PATENT DATE | NAME | CLASS/ SUBCLASS | FILING DATE* |
|---------------------|------------------|--------------------|------------------|--------------------|-------------------|
| | 3,729,581 | April 24, 1973 | Anderson | 348/640 | September 3, 1973 |
| | 3,731,197 | May 1, 1973 | Clark | 380/36 | December 15, 1969 |
| | 3,736,369 | May 29, 1973 | Vogelman et al. | 380/228 | March 13, 1972 |
| | 3,744,043 | July 3, 1973 | Walden et al. | 340/870.7 | June 1, 1971 |
| | 3,746,780 | July 17, 1973 | Stetten et al. | 386/95 | February 25, 1971 |
| | 3,749,845 | July 31, 1973 | Fraser | 370/433 | August 27, 1971 |
| | 3,754,211 | August 21, 1973 | Rocher et al. | 714/749 | December 30, 1971 |
| | 3,755,624 | August 28, 1973 | Sekimoto | 348/495 | April 22, 1971 |
| | 3,757,225 | September 4, 1973 | Ukicki | 725/1 | March 16, 1972 |
| | 3,761,888 | September 25, 1973 | Flynn | 710/18 | August 3, 1972 |
| | 3,773,977 | November 20, 1973 | Guanella | 380/36 | June 21, 1971 |
| | 3,777,053 | December 4, 1973 | Wittig et al. | 380/228 | May 16, 1972 |
| | 3,789,137 | January 29, 1974 | Newell | 386/98 | April 7, 1972 |
| | 3,798,359 | March 19, 1974 | Feistel | 380/37 | June 30, 1971 |
| | 3,798,610 | March 19, 1974 | Bliss et al.. | 709/236 | December 20, 1972 |
| | 3,806,814 | April 23, 1974 | Forbes | 725/119 | April 26, 1972 |
| | 3,819,852 | June 24, 1974 | Wolf | 348/478 | August 29, 1972 |
| | 3,824,332 | July 16, 1974 | Horowitz | 380/222 | February 18, 1972 |
| | 3,824,467 | July 16, 1974 | French | 380/35 | December 1, 1972 |
| | 3,825,893 | July 23, 1974 | Bossen et al. | 714/757 | May 29, 1973 |
| | 3,833,757 | September 3, 1974 | Kirk, Jr. et al. | 725/144 | April 10, 1972 |
| | 3,835,387 | September 10, 1974 | Rookes et al. | 725/151 | November 15, 1972 |
| | 3,842,196 | October 15, 1974 | Loughlin. | 348/486 | November 12, 1973 |
| | 3,845,391 | October 29, 1974 | Crosby | 455/39 | July 15, 1971 |
| | 3,859,458 | January 7, 1975 | Takezawa et al. | 348/24 | August 30, 1973 |
| | 3,882,392 | May 6, 1975 | Harney | 725/79 | January 29, 1973 |
| | 3,890,461 | June 17, 1975 | Vogelman et al. | 380/228 | March 27, 1973 |
| | 3,891,792 | June 24, 1975 | Kimura | 348/622 | June 25, 1974 |
| | 3,893,031 | July 1, 1975 | Majeau et al. | 380/274 | November 8, 1972 |
| | 3,894,176 | July 8, 1995 | Mellon | 380/230 | 178/5.1 |
| | 3,899,633 | August 12, 1975 | Sorenson et al. | 380/207 | May 12, 1972 |
| | 3,909,512 | September 30, 1975 | Omori et al. | 386/75 | October 5, 1973 |
| | 3,911,216 | October 7, 1975 | Bartek et al. | 380/46 | December 17, 1973 |
| | 3,911,419 | October 7, 1975 | Bates et al. | 345/162 | November 23, 1973 |
| | 3,914,534 | October 21, 1975 | Forbes | 380/220 | October 29, 1973 |
| | 3,916,091 | October 28, 1975 | Kirk, Jr. et al. | 380/242 | January 31, 1973 |
| | 3,919,462 | November 11, 1975 | Hartung et al. | 380/235 | August 15, 1973 |
| | 3,921,151 | November 18, 1975 | Guanella | 380/36 | July 12, 1973 |
| | 3,922,482 | November 25, 1975 | Gabriel et al. | 725/31 | August 20, 1971 |
| | 3,934,079 | January 20, 1976 | Barnhart | 725/131 | October 26, 1973 |
| | 3,936,593 | February 3, 1976 | Aaronson et al. | 380/219 | August 5, 1974 |
| | 3,936,594 | February 3, 1976 | Schubin et al. | 380/238 | August 5, 1974 |
| | 3,944,931 | March 16, 1976 | Usami et al. | 455/192.2 | November 14, 1974 |
| | 3,949,313 | April 6, 1976 | Tamada et al. | 341/50 | May 28, 1974 |
| | 3,956,615 | May 11, 1976 | Anderson et al. | 705/72 | June 25, 1974 |

RECEIVED

MAY 15 1981

Serial No. 08/447,974
Docket No. 5634.0145

Group 2600

| EXAMINER INITIAL | PATENT NUMBER | PATENT DATE | NAME | CLASS/ SUBCLASS | FILING DATE* |
|---------------------|------------------|--------------------|--------------------|--------------------|--------------------|
| | 3,970,790 | July 20, 1976 | Guanella | 380/36 | March 7, 1974 |
| | 3,978,449 | August 31, 1976 | Sanders et al. | 714/823 | January 27, 1975 |
| | 3,987,398 | October 19, 1976 | Fung | 725/127 | July 5, 1974 |
| | 3,988,528 | October 26, 1976 | Yanagimachi et al. | 348/24 | August 27, 1973 |
| | 3,990,050 | November 2, 1976 | Kolettis et al. | 710/23 | September 25, 1974 |
| | 3,993,955 | November 23, 1976 | Belcher et al. | 725/33 | April 25, 1975 |
| | 3,997,718 | December 14, 1976 | Ricketts et al. | 725/114 | November 11, 1974 |
| | 4,008,369 | February 15, 1977 | Theurer et al. | 725/3 | February 28, 1975 |
| | 4,024,574 | May 17, 1977 | Nieson | 380/232 | February 26, 1975 |
| | 4,025,947 | May 24, 1977 | Michael | 348/705 | May 28, 1974 |
| | 4,025,948 | May 24, 1977 | Loshin | 380/228 | February 25, 1975 |
| | 4,048,619 | September 13, 1977 | Forman, Jr. et al. | 370/485 | September 17, 1976 |
| | 4,049,906 | September 20, 1977 | Hafner et al. | 178/2C | April 21, 1976 |
| | 4,052,737 | October 4, 1977 | Robertson et al. | 725/138 | July 9, 1976 |
| | 4,058,830 | November 15, 1977 | Gulnet et al. | 380/212 | June 3, 1976 |
| | 4,064,490 | December 20, 1977 | Nagel | 709/227 | September 10, 1975 |
| | 4,068,264 | January 10, 1978 | Pires | 380/233 | July 19, 1976 |
| | 4,079,419 | March 14, 1978 | Siegle et al. | 348/732 | October 29, 1975 |
| | 4,081,612 | March 28, 1978 | Hafner | 370/393 | July 14, 1976 |
| | 4,081,753 | March 28, 1978 | Miller | 455/158.2 | December 13, 1976 |
| | 4,091,417 | May 23, 1978 | Nieson | 380/232 | February 23, 1977 |
| | 4,104,486 | August 1, 1978 | Martin et al. | 379/106.06 | June 29, 1976 |
| | 4,112,464 | September 5, 1978 | Gulf et al. | 380/241 | May 11, 1977 |
| | 4,115,662 | September 19, 1978 | Gulnet et al. | 380/212 | September 6, 1977 |
| | 4,115,807 | September 19, 1978 | Pires | 380/233 | November 1, 1976 |
| | 4,120,030 | October 10, 1978 | Johnstine | 713/190 | March 11, 1977 |
| | 4,130,833 | December 19, 1978 | Choenet | 380/220 | April 11, 1977 |
| | 4,138,726 | February 26, 1979 | Girault et al. | 345/113 | June 29, 1977 |
| | 4,160,120 | July 3, 1979 | Barnes et al. | 380/29 | November 17, 1977 |
| | 4,161,751 | July 17, 1979 | Ost | 725/25 | May 19, 1977 |
| | 4,163,254 | July 31, 1979 | Block et al. | 380/233 | February 14, 1977 |
| | 4,163,255 | July 31, 1979 | Pires | 380/233 | June 15, 1978 |
| | 4,168,396 | September 18, 1979 | Best | 713/190 | October 31, 1977 |
| | 4,170,782 | October 9, 1979 | Miller | 725/14 | October 28, 1977 |
| | 4,171,513 | October 16, 1979 | Otey et al. | 380/43 | July 22, 1969 |
| | 4,172,213 | October 23, 1979 | Barnes et al. | 380/29 | November 17, 1977 |
| | 4,186,413 | January 29, 1980 | Mortimer | 348/473 | November 14, 1977 |
| | 4,196,310 | April 1, 1980 | Forman et al. | 380/46 | November 3, 1977 |
| | 4,200,770 | April 29, 1980 | Hellman et al. | 380/30 | September 6, 1977 |
| | 4,200,913 | April 29, 1980 | Kuhar et al. | 341/23 | April 13, 1977 |
| | 4,215,366 | July 29, 1980 | Davidson | 380/235 | April 24, 1979 |
| | 4,215,370 | July 29, 1980 | Kirk, Jr. | 375/240.01 | February 22, 1978 |
| | 4,225,967 | September 3, 1980 | Miwa et al. | 455/68 | January 9, 1978 |
| | 4,232,193 | November 4, 1980 | Gerard | 380/36 | May 3, 1978 |
| | 4,236,217 | November 25, 1980 | Kennedy | 702/61 | April 20, 1979 |

RECEIVED

MAY 19 2001

Serial No. 08/447,974
Docket No. 5634.0145

Group 2600

| EXAMINER INITIAL | PATENT NUMBER | PATENT DATE | NAME | CLASS/ SUBCLASS | FILING DATE* |
|---------------------|------------------|--------------------|-------------------|--------------------|--------------------|
| | 4,237,484 | December 2, 1980 | Brown et al. | 375/240.12 | August 8, 1979 |
| | 4,237,486 | December 2, 1980 | Shimp | 348/475 | November 9, 1978 |
| | 4,245,246 | January 13, 1981 | Cheung | 380/235 | August 3, 1978 |
| | 4,247,106 | January 27, 1981 | Jeffers et al. | 463/29 | April 12, 1978 |
| | 4,250,489 | February 10, 1981 | Dudash et al. | 340/825.02 | October 31, 1978 |
| | 4,250,521 | February 10, 1981 | Wright | 348/616 | June 19, 1979 |
| | 4,250,524 | February 10, 1981 | Tomizawa | 380/232 | February 22, 1979 |
| | 4,251,691 | February 17, 1981 | Kakihara et al. | 348/14.01 | December 1, 1978 |
| | 4,253,114 | February 24, 1981 | Tang et al. | 380/212 | September 26, 1978 |
| | 4,253,157 | February 24, 1981 | Kirschner et al. | 707/104 | September 29, 1978 |
| | 4,262,329 | April 14, 1981 | Bright et al. | 713/164 | March 27, 1978 |
| | 4,264,925 | April 28, 1981 | Freeman et al. | 725/138 | August 13, 1979 |
| | 4,266,243 | May 5, 1981 | Shutterly | 380/236 | April 25, 1979 |
| | 4,275,411 | June 23, 1981 | Lippel | 348/472 | April 19, 1978 |
| | 4,283,602 | August 11, 1981 | Adams et al. | 380/41 | September 23, 1968 |
| | 4,284,976 | August 18, 1981 | Gable et al. | 340/825.43 | June 7, 1979 |
| | 4,286,281 | August 25, 1981 | Suzuki | 386/12 | September 26, 1979 |
| | 4,287,592 | September 1, 1981 | Paulish et al. | 370/403 | May 23, 1979 |
| | 4,288,809 | September 8, 1981 | Yabe | 348/468 | May 21, 1980 |
| | 4,290,141 | September 15, 1981 | Anderson et al. | 725/24 | July 2, 1979 |
| | 4,295,223 | October 13, 1981 | Shutterly | 455/72 | April 25, 1979 |
| | 4,302,771 | November 24, 1981 | Gargini | 725/119 | July 23, 1980 |
| | 4,304,990 | December 8, 1981 | Atalla | 380/45 | February 4, 1980 |
| | 4,305,131 | December 8, 1981 | Best | 345/327 | March 31, 1980 |
| | 4,306,289 | December 15, 1981 | Lumley | 713/190 | February 4, 1980 |
| | 4,306,305 | December 15, 1981 | Doi et al. | 714/755 | October 19, 1979 |
| | 4,307,446 | December 22, 1981 | Barton et al. | 710/131 | May 2, 1979 |
| | 4,310,854 | January 12, 1982 | Baer | 348/484 | August 28, 1979 |
| | 4,312,016 | January 19, 1982 | Glaab et al. | 348/706 | February 2, 1979 |
| | 4,313,132 | January 26, 1982 | Doles et al. | 725/26 | October 31, 1979 |
| | 4,314,367 | February 2, 1982 | Bakka et al. | 370/422 | January 17, 1980 |
| | 4,316,055 | February 16, 1982 | Feistel | 380/37 | December 30, 1976 |
| | 4,316,245 | February 16, 1982 | Luu et al. | 709/106 | December 7, 1978 |
| | 4,317,215 | February 23, 1982 | Tabata et al. | 725/131 | September 11, 1979 |
| | 4,318,125 | March 2, 1982 | Shutterly | 380/236 | April 25, 1979 |
| | 4,319,079 | March 9, 1982 | Best | 713/190 | January 17, 1980 |
| | 4,322,745 | March 30, 1982 | Saeki et al. | 380/242 | March 21, 1980 |
| | 4,323,921 | April 6, 1982 | Guillou | 705/53 | January 23, 1980 |
| | 4,323,922 | January 6, 1982 | de Toonder et al. | 380/226 | December 17, 1979 |
| | 4,325,078 | April 13, 1982 | Seatom et al. | 380/230 | November 20, 1979 |
| | 4,329,675 | May 11, 1982 | Van Hulle | 725/32 | September 23, 1980 |
| | 4,329,684 | May 11, 1982 | Monteath et al. | 345/180 | January 15, 1980 |
| | 4,330,794 | May 18, 1982 | Sherwood | 380/206 | February 25, 1980 |
| | 4,332,980 | June 1, 1982 | Reynolds et al. | 370/259 | May 30, 1980 |
| | 4,334,242 | June 8, 1982 | Mangold | 386/46 | January 14, 1980 |

RECEIVED

MAY 15 2001

Serial No. 08/447,974
Docket No. 5634.0145

Group 2600

| EXAMINER INITIAL | PATENT NUMBER | PATENT DATE | NAME | CLASS/ SUBCLASS | FILING DATE* |
|---------------------|------------------|--------------------|--------------------|--------------------|--------------------|
| | 4,336,553 | June 22, 1982 | den Toonder et al. | 380/206 | May 14, 1980 |
| | 4,336,559 | June 22, 1982 | Koyama et al. | 260/73.05 | November 9, 1978 |
| | 4,337,480 | June 29, 1982 | Bourassin et al. | 348/552 | February 8, 1980 |
| | 4,338,628 | July 6, 1982 | Payne et al. | 380/213 | December 19, 1979 |
| | 4,339,798 | July 13, 1982 | Hedges et al. | 463/26 | December 17, 1979 |
| | 4,340,903 | July 20, 1982 | Tamura | 348/187 | August 6, 1980 |
| | 4,343,042 | August 3, 1982 | Schrock et al. | 725/116 | June 9, 1979 |
| | 4,347,498 | August 31, 1982 | Lee et al. | 340/825.02 | November 21, 1979 |
| | 4,347,532 | August 31, 1982 | Korver | 348/565 | October 14, 1980 |
| | 4,353,088 | October 5, 1982 | den Toonder et al. | 380/206 | May 14, 1980 |
| | 4,354,201 | October 12, 1982 | Sechet et al. | 380/228 | June 11, 1980 |
| | 4,360,828 | November 23, 1982 | Briggs, Jr. et al. | 725/114 | August 7, 1978 |
| | 4,361,851 | November 30, 1982 | Asip et al. | 725/14 | January 4, 1980 |
| | 4,361,877 | November 30, 1982 | Dyer et al. | 702/176 | February 5, 1980 |
| | 4,364,081 | December 14, 1982 | Hashimoto et al. | 348/617 | April 16, 1981 |
| | 4,365,110 | December 21, 1982 | Lee et al. | 380/28 | June 5, 1979 |
| | 4,367,548 | January 4, 1983 | Cotten, Jr. et al. | 359/125 | April 10, 1980 |
| | 4,367,557 | January 4, 1983 | Stern et al. | 725/149 | May 25, 1979 |
| | 4,368,483 | January 11, 1983 | Liu | 348/617 | June 22, 1981 |
| | 4,368,486 | January 11, 1983 | Degoulet et al. | 348/598 | February 25, 1981 |
| | 4,374,437 | February 15, 1983 | Citta et al. | 455/164.2 | December 29, 1980 |
| | 4,375,579 | March 1, 1983 | Davida et al. | 380/28 | January 30, 1980 |
| | 4,375,651 | March 1, 1983 | Templin et al. | 348/731 | July 27, 1981 |
| | 4,378,470 | March 29, 1983 | Murto, el al. | 379/93.05 | March 25, 1981 |
| | 4,379,205 | April 5, 1983 | Wyner | 380/28 | June 22, 1979 |
| | 4,385,324 | May 24, 1983 | Shioda et al. | 348/781 | November 16, 1981 |
| | 4,388,643 | June 14, 1983 | Aminetzah | 380/239 | April 6, 1981 |
| | 4,388,645 | June 14, 1983 | Cox et al. | 348/468 | April 13, 1981 |
| | 4,388,664 | June 14, 1983 | Ishman et al. | 361/93.6 | August 3, 1981 |
| | 4,389,671 | June 21, 1983 | Posner et al. | 380/235 | September 29, 1980 |
| | 4,390,898 | June 28, 1983 | Bond et al. | 380/241 | March 23, 1981 |
| | 4,394,691 | July 19, 1983 | Amano et al. | 348/734 | July 30, 1981 |
| | 4,394,762 | July 19, 1981 | Nabeshima | 714/758 | January 6, 1981 |
| | 4,395,757 | July 26, 1983 | Bienvenu et al. | 709/104 | April 14, 1981 |
| | 4,396,915 | August 2, 1983 | Farnsworth et al. | 340/870.03 | March 31, 1980 |
| | 4,396,946 | August 2, 1983 | Bond | 380/226 | March 23, 1981 |
| | 4,396,947 | August 2, 1983 | Cheung | 380/222 | March 26, 1980 |
| | 4,398,216 | August 9, 1983 | Field et al. | 380/238 | September 19, 1980 |
| | 4,400,587 | August 23, 1983 | Taylor et al. | 379/113 | August 25, 1981 |
| | 4,405,942 | September 20, 1983 | Block et al. | 380/214 | March 3, 1982 |
| | 4,410,917 | October 18, 1983 | Newdoll et al. | 360/15 | September 14, 1981 |
| | 4,413,339 | November 1, 1983 | Riggle et al. | 714/765 | July 24, 1981 |
| | 4,415,771 | November 15, 1983 | Martinez | 379/43 | April 3, 1981 |
| | 4,422,093 | December 20, 1983 | Pargee, Jr. | 725/115 | January 27, 1983 |
| | 4,424,532 | January 3, 1984 | den Toonder et al. | 380/226 | May 9, 1983 |

RECEIVED

MAY 15 1981

Serial No. 08/447,974
Docket No. 5634.0145

Group 2600

| EXAMINER INITIAL | PATENT NUMBER | PATENT DATE | NAME | CLASS/ SUBCLASS | FILING DATE* |
|---------------------|------------------|--------------------|-------------------|--------------------|--------------------|
| | 4,425,581 | January 10, 1984 | Schweppe et al. | 348/510 | April 17, 1981 |
| | 4,433,207 | February 21, 1984 | Best | 713/190 | September 10, 1981 |
| | 4,434,323 | February 28, 1984 | Levine et al. | 380/260 | June 29, 1981 |
| | 4,434,436 | February 28, 1984 | Kleykamp et al. | 380/209 | July 13, 1981 |
| | 4,434,464 | February 28, 1984 | Suzuki et al. | 711/164 | March 31, 1981 |
| | 4,439,784 | March 23, 1984 | Furukawa et al. | 725/25 | September 26, 1980 |
| | 4,446,519 | May 1, 1984 | Thomas | 711/164 | May 26, 1981 |
| | 4,449,246 | May 15, 1984 | Seiler et al. | 455/9 | May 2, 1980 |
| | 4,455,570 | June 19, 1984 | Saeki, et al. | 725/92 | October 13, 1981 |
| | 4,461,002 | July 17, 1984 | Nanko | 714/798 | January 19, 1982 |
| | 4,464,679 | August 7, 1984 | Wargo | 348/510 | July 6, 1981 |
| | 4,467,139 | August 21, 1984 | Mollier | 713/181 | March 12, 1981 |
| | 4,467,356 | August 21, 1984 | McCoy | 348/385.1 | September 24, 1981 |
| | 4,471,163 | September 11, 1984 | Donald et al. | 705/55 | October 5, 1981 |
| | 4,471,164 | September 11, 1984 | Henry | 380/30 | October 13, 1981 |
| | 4,472,801 | September 18, 1984 | Huang | 370/411 | March 28, 1983 |
| | 4,473,824 | September 25, 1984 | Claytor | 340/825.27 | July 22, 1983 |
| | 4,475,123 | October 2, 1984 | Dumbauld et al. | 380/211 | April 2, 1981 |
| | 4,484,218 | November 20, 1984 | Boland et al. | 725/131 | April 29, 1981 |
| | 4,486,853 | December 4, 1984 | Parsons | 345/418 | April 1, 1981 |
| | 4,492,820 | January 8, 1985 | Kennard et al. | 379/46 | October 24, 1980 |
| | 4,500,987 | February 19, 1985 | Hasegawa | 370/462 | November 23, 1982 |
| | 4,506,387 | March 19, 1985 | Walter | 359/118 | May 25, 1983 |
| | 4,513,174 | April 23, 1985 | Herman | 711/214 | March 19, 1981 |
| | 4,518,989 | May 21, 1985 | Yabiki et al. | 725/92 | September 30, 1982 |
| | 4,528,588 | July 9, 1985 | Lofberg | 340/5.1 | May 18, 1982 |
| | 4,528,589 | July 9, 1985 | Block et al. | 380/241 | February 1, 1984 |
| | 4,538,176 | August 27, 1985 | Nakajima et al. | 725/119 | November 26, 1979 |
| | 4,567,359 | January 28, 1986 | Lockwood | 235/381 | May 24, 1984 |
| | 4,580,134 | April 1, 1986 | Campbell et al. | 345/152 | November 16, 1982 |
| | 4,593,353 | June 3, 1986 | Pickholtz | 705/55 | October 26, 1981 |
| | 4,598,288 | July 1, 1986 | Yarbrough et al. | 340/5.74 | December 20, 1983 |
| | 4,599,644 | July 8, 1986 | Fischer | 725/21 | October 25, 1984 |
| | 4,611,227 | September 9, 1986 | Brockhurst et al. | 348/468 | November 22, 1982 |
| | 4,614,971 | September 30, 1986 | Maney et al. | 348/466 | January 5, 1983 |
| | 4,631,585 | December 23, 1986 | Wine | 348/510 | May 7, 1984 |
| | 4,636,851 | January 13, 1987 | Drury et al. | 380/215 | December 12, 1983 |
| | 4,647,974 | March 3, 1987 | Butler et al. | 358/185 | April 12, 1985 |
| | 4,677,552 | June 30, 1987 | Sibley, Jr. | 705/37 | October 5, 1984 |
| | 4,677,685 | June 30, 1987 | Kurisu | 725/151 | July 16, 1985 |
| | 4,680,797 | July 14, 1986 | Benke et al. | 704/211 | June 26, 1984 |
| | 4,682,292 | July 21, 1987 | Bue et al. | 701/35 | July 23, 1984 |
| | 4,688,105 | August 18, 1987 | Bloch et al. | 386/38 | May 10, 1985 |
| | 4,689,661 | August 25, 1987 | Barbieri et al. | 375/240.01 | June 22, 1981 |
| | 4,706,109 | November 10, 1987 | Murray | 348/481 | May 30, 1985 |

RECEIVED

MAY 15 2001

Serial No. 08/447,974
Docket No. 5634.0145

Group 2600

| EXAMINER INITIAL | PATENT NUMBER | PATENT DATE | NAME | CLASS/ SUBCLASS | FILING DATE* |
|---------------------|------------------|--------------------|------------------|--------------------|-------------------|
| | 4,706,282 | November 10, 1987 | Knowd | 713/168 | December 23, 1985 |
| | 4,742,516 | May 3, 1988 | Yamaguchi | 370/312 | January 10, 1986 |
| | 4,742,543 | May 3, 1988 | Fredericksen | 380/237 | July 10, 1986 |
| | 4,744,080 | May 10, 1988 | Brennand et al. | 380/212 | February 27, 1986 |
| | 4,748,619 | May 31, 1988 | Vigarie et al. | 370/349 | February 20, 1987 |
| | 4,772,887 | September 20, 1988 | Dunkerton | 340/825.48 | August 5, 1983 |
| | 4,774,583 | September 27, 1988 | Kellar et al. | 348/585 | February 6, 1985 |
| | 4,782,387 | November 1, 1988 | Sabri et al. | 375/240.21 | December 9, 1986 |
| | 4,809,267 | February 28, 1989 | Higuchi et al. | 370/460 | June 29, 1987 |
| | 4,814,756 | March 21, 1989 | Chauvel | 345/565 | January 28, 1987 |
| | 4,831,526 | May 16, 1989 | Luchs et al. | 705/4 | April 22, 1986 |
| | 4,835,777 | May 30, 1989 | DeLuca, et al. | 714/822 | January 7, 1987 |
| | 4,908,713 | March 13, 1990 | Levine | 386/83 | June 29, 1988 |
| | 4,942,616 | July 7, 1990 | Linstroth et al. | 704/275 | September 9, 1985 |
| | 4,963,994 | October 16, 1990 | Levine | 386/83 | February 23, 1990 |
| | RE 31,182 | March 15, 1983 | Crager et al. | 178/3 | October 11, 1979 |
| | RE 31,735 | November 13, 1984 | Davidson | 380/235 | July 26, 1982 |
| | RE 32,326 | January 6, 1987 | Nagel et al. | 348/463 | May 19, 1983 |

* If Pertinent

FOREIGN PATENT DOCUMENTS

| EXAMINER INITIAL | DOCUMENT NUMBER | PUBLICATION DATE | COUNTRY | CLASS/ SUBCLASS | TRANSLATION YES NO |
|---------------------|--------------------|---------------------|---------|--------------------|-----------------------|
| | 1,556,366 | | UK | | |
| | 2,853,764 | | DE | | |
| | 2,904,981 | | Germany | | |
| | 3,143,627 | | Germany | | |
| | 60-146587 | | JP | | |
| | AU 74,619 | | AU | | |
| | DE 2,904,891 | | DE | | |
| | DE 2338380 | | DE | | |
| | DE 2918846 | | DE | | |
| | DE 3,143,627 | | DE | | |
| | DT 2,550,624 A1 | | Germany | | |
| | DT 255,024 | | DT | | |
| | EP 187,417 | 16-Jul-86 | EP | | |
| | EP 55674 | | EP | | |
| | FR 79-03351 | Feb-79 | FR | | |
| | GB 1,370,535 | | GB | | |
| | GB 1,515,309 | 21-Jun-78 | GB | | |
| | GB 1554411 | | GB | | |
| | GB 2,016,874 | Feb-79 | GB | | |
| | GB 2,140,963 | | GB | | |
| | GB 2034995 | | GB | | |

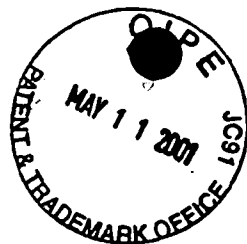
| EXAMINER INITIAL | DOCUMENT NUMBER | PUBLICATION DATE | COUNTRY | CLASS/ SUBCLASS | TRANSLATION YES NO |
|---------------------|--------------------|---------------------|---------|--------------------|-----------------------|
| | GB 959,274 | | GB | | |
| | JA 0053984 | Jinno | JP | | |
| | JP 53-11515 | | JP | | |
| | JP 53-121420 | | JP | | |
| | JP 55-028691 | | JP | | |
| | JP 55-500886 | | JP | | |
| | JP 56-51161 | | JP | | |
| | JP 57-199377 | | JP | | |
| | JP 59-154886 | | JP | | |
| | JP 59-50134 | | JP | | |
| | JP 60-149281 | | JP | | |
| | JP 61-20441 | | JP | | |
| | JP 61-267474 | | JP | | |
| | PL 204,525 | Feb-78 | PL | | |
| | WO 80/02093 | | WIPO | | |

OTHER DOCUMENTS

| Examiner Initial | Date, Author, Title, Pertinent Pages, Etc. | | |
|---------------------|--|----------------------------|---|
| | 9/76 | Gaines, B.R. and Sams, J., | "Minicomputers in Security Dealing," Computer, September, 1976, pp. 6-15. |
| | 4/79 | Kazama et al., | "Automatic storage and retrieval of video taped programs", 4/79 |
| | 3/80 | | Transcript of Viewdata '80, first world conference on viewdata, videotex, and teletext, 26-28 March 1980, London. |
| | | Benson, K. B. et al. | "CBS New York Video Tape Facilities" |
| | 1960 | Brown et al. | Project SCORE," pp. 624-630, 1960. |
| | | Burkhardt et al. | "Digital Television Transmisson With 34 Mbit/s" |
| | 1959 | Byloff | "Automatic Control of Video Tape Equipment at NBC, Burbank," by the National Broadcasting Company, Inc. In 1959. |
| | | Charles Gerrish | "QUBE"- INTERACTIVE VIDEO ON THE MOVE" |
| | 1/76 | Crowther, et al. G.O. | "TELETEXT RECEIVER LSI DATA ACQUISITION AND CONTROL," 1/13/76, pp 911-915 |
| | | Davidoff, Frank | "The All-Digital Television Studio," SMPTE Journal, vol. 89, No. 6. |
| | | Diederich, Werner DT, | "Electronic Image and Tone Return Equipment With Switching System and Remote Control Receiver for Television Decoder" |
| | | Gaucher, | "Automatic Program Recording System" |
| | | M.W.S.. Barlow | "Automatic Switching in the CBC- An Update" |
| | 1959 | Marsden, | "Master Control Techniques," v 9 of the "Journal of the Television Society," 1959 |
| | | McArthur, David | "The television as a receive only terminal" |
| | | Millar et al. | "Transmission of Alphanumeric Data by Television" |
| | | Schober | "The WETA Teletext Filed Trial: Some Technical Concerns....." |
| | | Skilton | "The Digitrol 2 - Automatic VTR Programme Control" |

| Examiner Initial | Date, Author, Title, Pertinent Pages, Etc. | | |
|------------------|--|-----------------|--|
| | | Stern | "An Automated Programming Control System for Cable TV" |
| | | Yamane et al. | "System and apparatus for automatic Monitoring control of Broadcast Circuits" |
| | | Zetl | "Television Production Handbook", second edition. |
| | | Schiller et al. | "CATV Program Origination and Production" |
| | 6/71 | Hughes et al. | "Some Design Considerations for Home Interactive Terminals, IEEE Transaction on Broadcasting, Vol. BC-17, No. 2, June 1971. |
| | | Kaneko et al. | "Digital Transmission of Broadcast Television with Reduced Bit Rate." |
| | | Gautier, C. | "Automatic Program Recording Systems". |
| | | Yamane et al., | "System and Apparatus for Automatic Monitoring Control of Broadcast Circuits." |
| | 11/1975 | Kahn et al. | "Advances in Packet Radio Technology," Proceedings of IEEE, Vol. 6.6, No. 11. |
| | 5/27/79 | Marti, B. | "The Concept of Universal Teletext," CCETT, Rennes 11 th International Television Symposium Paper, V11 A-3A, pp. 1-11. |
| | 10/1980 | | "Videotex Services," National Cable Television Association Executive Seminar Series, NCTA Washington, October 1980, pp. III-VII, 1-3, 23-27. |
| | 2/1985 | | "Specification du service de classe A, TeleDiffusion de France," Antiope. |
| | 6/1981 | Gautier, J.P. | "Language Telediffuse de Messagerie du Projet Ecrans Hybrides," Antiope/Didon system. |
| | 6/1985 | Auer, R. | "Die Warteschlange Uberlistet," Funkschau, pp. 53-56. |
| | 5/1981 | Grethlein, M. | "Videotext und Bildschirmtext," Funkschau, Heft 5, 1981, pp. 69-73. |
| | 4/1980 | Heider, et al. | "Videotext und Bildschirmtext," Grundig Technische Informationen, Heft 4/5, 1980, pp. 171-195. |
| | 6/1984 | | Kombinierer fur Videotextsignal, "Runfunktechnische Mitteilungen," Jahrgang 28, (1984), Heft 6, pp. 273-289. |

| | | | |
|--|--------------------|-----------------|------------|
| EXAMINER | /Michael Moore Jr/ | DATE CONSIDERED | 02/20/2010 |
| EXAMINER: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s). | | | |

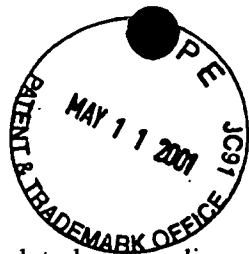


Appendix A

A concise explanation of the relevance, as it is presently understood, of each patent, publication, or other information listed that is not in the English language. 37 C.F.R. § 1.98(a)(3).

| Reference No. | Date | Author/ Inventor | Title/Description | Explanation |
|---------------|--------|---------------------|---|---|
| JP 53-121420 | | | Japanese Patent Laying Open Gazette | A billing system for pay TV is disclosed. |
| JP 60-149281 | | | Japanese Patent Laying Open Gazette | A billing system for pay TV is disclosed. |
| JP 61-267474 | | | Japanese Patent Laying Open Gazette | A receiver for pay broadcast is disclosed. |
| JP 61-20441 | | | Japanese Patent Laying Open Gazette | A broadcast system is disclosed. |
| PL 52080 | | Zaboklicki | Sposob Realizacji I Zestaw Urzadzen Aktywnej Telewizji | A method and apparatus for interactive television systems designed for a conversational reception of specially programmed television broadcasts. |
| DE 29 04 981 | | Zaboklicki | Verfahren zur Übertragung von Fernsehsignalen und System zur Durchführung des Verfahrens. | A method and apparatus for interactive television systems designed for a conversational reception of specially programmed television broadcasts. |
| FR 79 03351 | | Zaboklicki | Procede de realisation et ensemble de dispositifs formant un systeme de television interactive. | A method and apparatus for interactive television systems designed for a conversational reception of specially programmed television broadcasts. |
| | 2/1985 | | "Specification du service de classe A, TeleDiffusion de France," Antiope. | A specification of a broadcast teletext system. |
| | 6/1981 | Gautier, J.P. | "Language Telediffuse de Messagerie du Projet Ecrans Hybrides," Antiope/Didon system. | A hybrid screen teletext electronic message system. |
| | 6/1985 | Auer, R. | "Die Warteschlange Überlistet," Funkschau, pp. 53-56. | A fast video text queing system that decreases the waiting time with a broadcast videotext decoder. |
| | 6/1984 | | Kombinierer für Videotextsignal, "Runfunktechnische Mitteilungen," Jahrgang 28, (1984), | A combiner for a videotext signal that makes it possible to transfer videotext pages form several input cycles to one output cycle. |

| Reference No. | Date | Author/ Inventor | Title/Description | Explanation |
|---------------|--------|---------------------|--|---|
| | | | Heft 6, pp. 273-289. | |
| | 5/1981 | Grethlein, M. | "Videotext und Bildschirmtext," Funkschau, Heft 5, 1981, pp. 69-73. | Videotext and interactive videotext. |
| | 4/1980 | Heider, et al. | "Videotext und Bildschirmtext," Grundig Technische Informationen, Heft 4/5, 1980, pp. 171- 195. | Videotext and interactive videotext. |



Serial No. 08/447,974
Docket No. 5634.0145

Appendix B

List of Applicants' related co-pending applications. 37 C.F.R. § 1.98(d).

| PTO S/N | Docket No. | Filed |
|------------|------------|-----------------|
| 08/113,329 | 5634.008 | August 30, 1993 |
| 08/397,582 | 5634.010 | March 2, 1995 |
| 08/397,636 | 5634.012 | March 2, 1995 |
| 08/397,371 | 5634.017 | March 2, 1995 |
| 08/435,757 | 5634.036 | May 9, 1995 |
| 08/437,887 | 5634.037 | May 9, 1995 |
| 08/437,864 | 5634.038 | May 9, 1995 |
| 08/438,206 | 5634.039 | May 9, 1995 |
| 08/437,791 | 5634.040 | May 9, 1995 |
| 08/435,758 | 5634.041 | May 9, 1995 |
| 08/437,045 | 5634.042 | May 9, 1995 |
| 08/438,659 | 5634.043 | May 9, 1995 |
| 08/437,629 | 5634.044 | May 9, 1995 |
| 08/437,635 | 5634.045 | May 9, 1995 |
| 08/438,216 | 5634.046 | May 9, 1995 |
| 08/437,044 | 5634.047 | May 9, 1995 |
| 08/437,937 | 5634.048 | May 9, 1995 |
| 08/437,819 | 5634.049 | May 9, 1995 |
| 08/438,011 | 5634.050 | May 9, 1995 |
| 08/440,657 | 5634.051 | May 15, 1995 |
| 08/441,701 | 5634.052 | May 15, 1995 |
| 08/441,027 | 5634.053 | May 16, 1995 |
| 08/479,524 | 5634.054 | June 7, 1995 |
| 08/442,369 | 5634.055 | May 16, 1995 |
| 08/441,575 | 5634.056 | May 15, 1995 |
| 08/451,496 | 5634.057 | May 26, 1995 |
| 08/449,369 | 5634.058 | May 24, 1995 |
| 08/440,837 | 5634.059 | May 15, 1995 |
| 08/441,033 | 5634.060 | May 15, 1995 |
| 08/441,942 | 5634.061 | May 16, 1995 |
| 08/439,668 | 5634.062 | May 15, 1995 |
| 08/480,059 | 5634.063 | June 7, 1995 |
| 08/474,964 | 5634.064 | June 7, 1995 |
| 08/452,395 | 5634.065 | May 26, 1995 |
| 08/483,980 | 5634.066 | June 7, 1995 |
| 08/449,717 | 5634.067 | May 24, 1995 |
| 08/449,291 | 5634.068 | May 24, 1995 |
| 08/448,915 | 5634.069 | May 24, 1995 |
| 08/451,377 | 5634.070 | May 26, 1995 |
| 08/448,977 | 5634.071 | May 24, 1995 |
| 08/448,643 | 5634.072 | May 24, 1995 |
| 08/473,996 | 5634.073 | June 7, 1995 |
| 08/442,383 | 5634.074 | May 16, 1995 |
| 08/441,880 | 5634.075 | May 16, 1995 |

| PTO S/N | Docket No. | Filed |
|------------|------------|--------------|
| 08/487,980 | 5634.076 | June 7, 1995 |
| 08/485,775 | 5634.077 | June 7, 1995 |
| 08/451,746 | 5634.078 | May 26, 1995 |
| 08/451,203 | 5634.079 | May 26, 1995 |
| 08/441,577 | 5634.080 | May 15, 1995 |
| 08/439,670 | 5634.081 | May 15, 1995 |
| 08/441,749 | 5634.082 | May 16, 1995 |
| 08/442,327 | 5634.083 | May 16, 1995 |
| 08/442,505 | 5634.084 | May 16, 1995 |
| 08/441,821 | 5634.085 | May 16, 1995 |
| 08/441,996 | 5634.086 | May 16, 1995 |
| 08/442,165 | 5634.087 | May 16, 1995 |
| 08/442,335 | 5634.088 | May 16, 1995 |
| 08/442,507 | 5634.089 | May 16, 1995 |
| 08/477,660 | 5634.090 | June 7, 1995 |
| 08/484,276 | 5634.092 | June 7, 1995 |
| 08/479,217 | 5634.093 | June 7, 1995 |
| 08/487,516 | 5634.094 | June 7, 1995 |
| 08/487,982 | 5634.095 | June 7, 1995 |
| 08/482,573 | 5634.096 | June 7, 1995 |
| 08/487,536 | 5634.097 | June 7, 1995 |
| 08/474,963 | 5634.098 | June 7, 1995 |
| 08/478,663 | 5634.099 | June 7, 1995 |
| 08/444,786 | 5634.100 | May 19, 1995 |
| 08/445,054 | 5634.101 | May 19, 1995 |
| 08/448,175 | 5634.102 | May 23, 1995 |
| 08/444,757 | 5634.103 | May 19, 1995 |
| 08/446,553 | 5634.104 | May 19, 1995 |
| 08/445,296 | 5634.105 | May 19, 1995 |
| 08/446,579 | 5634.106 | May 19, 1995 |
| 08/444,756 | 5634.107 | May 19, 1995 |
| 08/445,045 | 5634.108 | May 19, 1995 |
| 08/444,788 | 5634.109 | May 19, 1995 |
| 08/444,781 | 5634.110 | May 19, 1995 |
| 08/444,643 | 5634.111 | May 19, 1995 |
| 08/445,328 | 5634.112 | May 19, 1995 |
| 08/445,290 | 5634.113 | May 19, 1995 |
| 08/444,758 | 5634.114 | May 19, 1995 |
| 08/444,887 | 5634.115 | May 19, 1995 |
| 08/446,123 | 5634.116 | May 19, 1995 |
| 08/446,124 | 5634.117 | May 19, 1995 |
| 08/444,787 | 5634.118 | May 19, 1995 |
| 08/445,294 | 5634.119 | May 19, 1995 |
| 08/448,143 | 5634.120 | May 23, 1995 |

| PTO S/N | Docket No. | Filed |
|------------|------------|--------------|
| 08/447,496 | 5634.121 | May 23, 1995 |
| 08/447,414 | 5634.122 | May 23, 1995 |
| 08/448,326 | 5634.123 | May 23, 1995 |
| 08/449,530 | 5634.124 | May 23, 1995 |
| 08/447,380 | 5634.125 | May 23, 1995 |
| 08/447,826 | 5634.126 | May 23, 1995 |
| 08/447,712 | 5634.127 | May 23, 1995 |
| 08/447,416 | 5634.128 | May 23, 1995 |
| 08/447,415 | 5634.129 | May 23, 1995 |
| 08/447,679 | 5634.130 | May 23, 1995 |
| 08/447,724 | 5634.131 | May 23, 1995 |
| 08/447,448 | 5634.132 | May 23, 1995 |
| 08/447,938 | 5634.133 | May 23, 1995 |
| 08/447,908 | 5634.134 | May 23, 1995 |
| 08/447,446 | 5634.135 | May 23, 1995 |
| 08/449,901 | 5634.136 | May 23, 1995 |
| 08/447,611 | 5634.137 | May 23, 1995 |
| 08/447,449 | 5634.138 | May 23, 1995 |
| 08/448,309 | 5634.139 | May 23, 1995 |
| 08/447,447 | 5634.140 | May 23, 1995 |
| 08/447,977 | 5634.141 | May 23, 1995 |
| 08/448,251 | 5634.142 | May 23, 1995 |
| 08/447,502 | 5634.143 | May 23, 1995 |
| 08/447,529 | 5634.144 | May 24, 1995 |
| 08/447,974 | 5634.145 | May 23, 1995 |
| 08/449,652 | 5634.146 | May 24, 1995 |
| 08/449,302 | 5634.147 | May 24, 1995 |
| 08/479,374 | 5634.148 | June 7, 1995 |
| 08/446,432 | 5634.149 | May 22, 1995 |
| 08/446,431 | 5634.150 | May 22, 1995 |
| 08/446,429 | 5634.151 | May 22, 1995 |
| 08/446,430 | 5634.152 | May 22, 1995 |
| 08/447,711 | 5634.153 | May 23, 1995 |
| 08/446,494 | 5634.154 | May 22, 1995 |
| 08/448,141 | 5634.155 | May 23, 1995 |
| 08/447,621 | 5634.156 | May 23, 1995 |
| 08/448,116 | 5634.157 | May 23, 1995 |
| 08/448,099 | 5634.158 | May 23, 1995 |
| 08/447,726 | 5634.159 | May 23, 1995 |
| 08/475,341 | 5634.160 | June 7, 1995 |
| 08/448,976 | 5634.161 | May 24, 1995 |
| 08/448,833 | 5634.162 | May 24, 1995 |
| 08/448,644 | 5634.163 | May 24, 1995 |
| 08/449,718 | 5634.164 | May 24, 1995 |
| 08/448,917 | 5634.165 | May 24, 1995 |
| 08/488,383 | 5634.166 | June 7, 1995 |
| 08/478,864 | 5634.167 | June 7, 1995 |
| 08/449,867 | 5634.169 | May 24, 1995 |
| 08/449,351 | 5634.170 | May 24, 1995 |

| PTO S/N | Docket No. | Filed |
|------------|------------|--------------|
| 08/449,248 | 5634.171 | May 24, 1995 |
| 08/449,263 | 5634.172 | May 24, 1995 |
| 08/477,712 | 5634.173 | June 7, 1995 |
| 08/449,413 | 5634.174 | May 24, 1995 |
| 08/449,697 | 5634.175 | May 24, 1995 |
| 08/449,531 | 5634.176 | May 24, 1995 |
| 08/448,810 | 5634.177 | May 24, 1995 |
| 08/449,829 | 5634.178 | May 24, 1995 |
| 08/448,667 | 5634.179 | May 24, 1995 |
| 08/449,411 | 5634.180 | May 24, 1995 |
| 08/448,978 | 5634.181 | May 24, 1995 |
| 08/449,523 | 5634.182 | May 24, 1995 |
| 08/449,281 | 5634.183 | May 24, 1995 |
| 08/449,800 | 5634.184 | May 24, 1995 |
| 08/488,439 | 5634.185 | June 7, 1995 |
| 08/474,146 | 5634.186 | June 7, 1995 |
| 08/473,224 | 5634.187 | June 7, 1995 |
| 08/477,955 | 5634.188 | June 7, 1995 |
| 08/488,032 | 5634.189 | June 7, 1995 |
| 08/481,074 | 5634.190 | June 7, 1995 |
| 08/487,895 | 5634.191 | June 7, 1995 |
| 08/479,667 | 5634.192 | June 7, 1995 |
| 08/483,054 | 5634.195 | June 7, 1995 |
| 08/487,981 | 5634.196 | June 7, 1995 |
| 08/477,805 | 5634.197 | June 7, 1995 |
| 08/485,283 | 5634.199 | June 7, 1995 |
| 08/450,680 | 5634.200 | May 24, 1995 |
| 08/448,662 | 5634.201 | May 24, 1995 |
| 08/449,702 | 5634.202 | May 24, 1995 |
| 08/448,794 | 5634.203 | May 24, 1995 |
| 08/449,110 | 5634.204 | May 24, 1995 |
| 08/449,532 | 5634.205 | May 24, 1995 |
| 08/449,798 | 5634.206 | May 24, 1995 |
| 08/448,979 | 5634.207 | May 24, 1995 |
| 08/449,097 | 5634.208 | May 24, 1995 |
| 08/448,916 | 5634.209 | May 24, 1995 |
| 08/482,574 | 5634.210 | June 7, 1995 |
| 08/460,668 | 5634.211 | June 2, 1995 |
| 08/460,711 | 5634.212 | June 2, 1995 |
| 08/460,793 | 5634.213 | June 2, 1995 |
| 08/460,120 | 5634.214 | June 2, 1995 |
| 08/460,043 | 5634.215 | June 2, 1995 |
| 08/460,591 | 5634.216 | June 2, 1995 |
| 08/458,760 | 5634.217 | June 2, 1995 |
| 08/459,216 | 5634.218 | June 2, 1995 |
| 08/460,387 | 5634.219 | June 2, 1995 |
| 08/460,187 | 5634.220 | June 2, 1995 |
| 08/460,677 | 5634.221 | June 2, 1995 |
| 08/460,394 | 5634.222 | June 2, 1995 |

| PTO S/N | Docket No. | Filed |
|------------|------------|--------------|
| 08/460,817 | 5634.223 | June 2, 1995 |
| 08/459,506 | 5634.224 | June 2, 1995 |
| 08/460,592 | 5634.225 | June 2, 1995 |
| 08/474,147 | 5634.226 | June 7, 1995 |
| 08/480,060 | 5634.227 | June 7, 1995 |
| 08/486,265 | 5634.228 | June 7, 1995 |
| 08/460,743 | 5634.229 | June 2, 1995 |
| 08/458,566 | 5634.230 | June 2, 1995 |
| 08/459,217 | 5634.231 | June 2, 1995 |
| 08/459,507 | 5634.232 | June 2, 1995 |
| 08/459,521 | 5634.233 | June 2, 1995 |
| 08/475,342 | 5634.234 | June 7, 1995 |
| 08/488,438 | 5634.235 | June 7, 1995 |
| 08/460,274 | 5634.236 | June 2, 1995 |
| 08/460,770 | 5634.237 | June 2, 1995 |
| 08/459,522 | 5634.238 | June 2, 1995 |
| 08/460,085 | 5634.239 | June 2, 1995 |
| 08/460,081 | 5634.240 | June 2, 1995 |
| 08/460,240 | 5634.241 | June 2, 1995 |
| 08/460,401 | 5634.242 | June 2, 1995 |
| 08/459,788 | 5634.243 | June 2, 1995 |
| 08/460,642 | 5634.244 | June 2, 1995 |
| 08/460,557 | 5634.245 | June 2, 1995 |
| 08/460,634 | 5634.246 | June 2, 1995 |
| 08/458,699 | 5634.247 | June 2, 1995 |
| 08/460,556 | 5634.248 | June 2, 1995 |
| 08/460,766 | 5634.249 | June 2, 1995 |
| 08/487,397 | 5634.250 | June 7, 1995 |
| 08/483,174 | 5634.251 | June 7, 1995 |
| 08/487,851 | 5634.252 | June 7, 1995 |
| 08/460,713 | 5634.253 | June 2, 1995 |
| 08/460,256 | 5634.254 | June 2, 1995 |
| 08/460,765 | 5634.255 | June 2, 1995 |
| 08/459,218 | 5634.256 | June 2, 1995 |
| 08/486,259 | 5634.257 | June 7, 1995 |
| 08/473,484 | 5634.258 | June 7, 1995 |
| 08/468,324 | 5634.259 | June 6, 1995 |
| 08/469,355 | 5634.260 | June 6, 1995 |
| 08/470,571 | 5634.261 | June 6, 1995 |
| 08/469,624 | 5634.262 | June 6, 1996 |
| 08/468,641 | 5634.263 | June 6, 1995 |
| 08/469,056 | 5634.264 | June 6, 1995 |
| 08/470,054 | 5634.265 | June 6, 1995 |
| 08/469,106 | 5634.266 | June 6, 1995 |
| 08/471,191 | 5634.267 | June 6, 1995 |
| 08/470,051 | 5634.268 | June 6, 1995 |
| 08/469,108 | 5634.269 | June 6, 1995 |
| 08/466,888 | 5634.270 | June 6, 1995 |
| 08/471,238 | 5634.271 | June 6, 1995 |

| PTO S/N | Docket No. | Filed |
|------------|------------|--------------|
| 08/469,626 | 5634.272 | June 6, 1995 |
| 08/469,623 | 5634.273 | June 6, 1995 |
| 08/511,491 | 5634.274 | June 6, 1995 |
| 08/470,447 | 5634.275 | June 6, 1995 |
| 08/466,894 | 5634.276 | June 6, 1995 |
| 08/468,736 | 5634.277 | June 6, 1995 |
| 08/470,236 | 5634.278 | June 6, 1995 |
| 08/469,078 | 5634.279 | June 6, 1995 |
| 08/469,612 | 5634.280 | June 6, 1995 |
| 08/466,887 | 5634.281 | June 6, 1995 |
| 08/468,044 | 5634.282 | June 6, 1995 |
| 08/471,239 | 5634.283 | June 6, 1995 |
| 08/467,904 | 5634.284 | June 6, 1995 |
| 08/467,045 | 5634.285 | June 6, 1995 |
| 08/471,240 | 5634.286 | June 6, 1995 |
| 08/469,517 | 5634.287 | June 6, 1995 |
| 08/469,059 | 5634.288 | June 6, 1995 |
| 08/470,570 | 5634.289 | June 6, 1995 |
| 08/469,496 | 5634.290 | June 6, 1995 |
| 08/470,053 | 5634.291 | June 6, 1995 |
| 08/468,323 | 5634.292 | June 6, 1995 |
| 08/470,448 | 5634.293 | June 6, 1995 |
| 08/469,107 | 5634.294 | June 6, 1995 |
| 08/472,066 | 5634.295 | June 6, 1995 |
| 08/469,109 | 5634.296 | June 6, 1995 |
| 08/468,994 | 5634.297 | May 24, 1995 |
| 08/466,890 | 5634.298 | June 6, 1995 |
| 08/471,024 | 5634.299 | June 6, 1995 |
| 08/469,103 | 5634.300 | June 6, 1995 |
| 08/470,476 | 5634.301 | June 6, 1995 |
| 08/470,052 | 5634.302 | June 6, 1995 |
| 08/474,145 | 5634.303 | July 7, 1995 |
| 08/485,507 | 5634.304 | June 7, 1995 |
| 08/472,399 | 5634.305 | June 7, 1995 |
| 08/478,544 | 5634.306 | June 7, 1995 |
| 08/483,269 | 5634.307 | June 7, 1995 |
| 08/487,155 | 5634.308 | June 7, 1995 |
| 08/478,107 | 5634.309 | June 7, 1995 |
| 08/480,392 | 5634.310 | June 7, 1995 |
| 08/482,857 | 5634.311 | June 7, 1995 |
| 08/477,711 | 5634.312 | June 7, 1995 |
| 08/478,908 | 5634.313 | June 7, 1995 |
| 08/487,410 | 5634.314 | June 7, 1995 |
| 08/472,462 | 5634.315 | June 7, 1995 |
| 08/478,767 | 5634.316 | June 7, 1995 |
| 08/488,619 | 5634.317 | June 7, 1995 |
| 08/487,411 | 5634.318 | June 7, 1995 |
| 08/474,674 | 5634.319 | June 7, 1995 |
| 08/473,213 | 5634.320 | June 7, 1995 |

| PTO S/N | Docket No. | Filed |
|------------|------------|--------------|
| 08/487,556 | 5634.321 | June 7, 1995 |
| 08/488,058 | 5634.322 | June 7, 1995 |
| 08/484,275 | 5634.323 | June 7, 1995 |
| 08/474,139 | 5634.324 | June 7, 1995 |
| 08/487,546 | 5634.325 | June 7, 1995 |
| 08/479,375 | 5634.326 | June 7, 1995 |
| 08/487,565 | 5634.327 | June 7, 1995 |
| 08/473,998 | 5634.328 | June 7, 1995 |
| 08/477,547 | 5634.329 | June 7, 1995 |
| 08/474,119 | 5634.330 | June 7, 1995 |
| 08/486,297 | 5634.331 | June 7, 1995 |
| 08/485,773 | 5634.332 | June 7, 1995 |
| 08/473,927 | 5634.333 | June 7, 1995 |
| 08/478,044 | 5634.334 | June 7, 1995 |
| 08/477,570 | 5634.335 | June 7, 1995 |
| 08/488,436 | 5634.336 | June 7, 1995 |
| 08/486,266 | 5634.337 | June 7, 1995 |
| 08/483,169 | 5634.338 | June 7, 1995 |
| 08/488,378 | 5634.339 | June 7, 1995 |
| 08/477,564 | 5634.340 | June 7, 1995 |
| 08/479,216 | 5634.341 | June 7, 1995 |
| 08/473,999 | 5634.342 | June 7, 1995 |
| 08/480,740 | 5634.343 | June 7, 1995 |
| 08/487,649 | 5634.344 | June 7, 1995 |
| 08/498,002 | 5634.345 | June 7, 1995 |
| 08/487,984 | 5634.346 | June 7, 1995 |
| 08/478,794 | 5634.347 | June 7, 1995 |
| 08/484,865 | 5634.348 | June 7, 1995 |
| 08/480,383 | 5634.349 | June 7, 1995 |
| 08/487,506 | 5634.350 | June 7, 1995 |
| 08/478,858 | 5634.351 | June 7, 1995 |
| 08/479,042 | 5634.352 | June 7, 1995 |
| 08/472,980 | 5634.353 | June 7, 1995 |
| 08/488,620 | 5634.354 | June 7, 1995 |
| 08/487,526 | 5634.355 | June 7, 1995 |
| 08/487,408 | 5634.356 | June 7, 1995 |
| 08/486,258 | 5634.357 | June 7, 1995 |
| 08/479,215 | 5634.358 | June 7, 1995 |
| 08/479,414 | 5634.359 | June 7, 1995 |
| 08/474,496 | 5634.360 | June 7, 1995 |
| 08/485,282 | 5634.361 | June 7, 1995 |
| 08/484,858 | 5634.362 | June 7, 1995 |
| 08/487,428 | 5634.363 | June 7, 1995 |
| 08/473,997 | 5634.364 | June 7, 1995 |
| 08/479,523 | 5634.365 | June 7, 1995 |



Serial No. 08/447,974
Docket No. 5634.0145

Appendix C

List of prior art cited by PTO in Applicants' related co-pending applications. The "Type" column refers to "F" = foreign patent or application; "P" = publication; and, "U" = U.S. Patent.

| Cited in PTO S/N | Type | Document No. | Reference |
|------------------|------|--------------|---|
| 08/113,329 | F | GB 959,274 | Germany |
| 08/113,329 | F | AU 74,619 | Hetrich |
| 08/113,329 | F | JP 56-51161 | Kamishima et al. |
| 08/113,329 | P | | Skilton, "The Digitrol 2 - Automatic VTR Programme Control |
| 08/397,371 | U | 4,422,093 | Pargée, Jr. |
| 08/397,582 | F | GB 959,274 | Germany |
| 08/397,582 | F | JP 55-028691 | Oono, et al. |
| 08/397,582 | U | 4,360,828 | Briggs, Jr. et al |
| 08/397,582 | U | 4,343,042 | Schrock et al. |
| 08/397,636 | F | GB 959,274 | Germany |
| 08/397,636 | F | AU 74,619 | Hetrich |
| 08/397,636 | F | WO 80/02093 | Vikene |
| 08/397,636 | F | DE 2,904,891 | Zaboklicki |
| 08/397,636 | P | | Burkhardt et al. "Digital Television Transmisson With 34 Mbit/s" |
| 08/397,636 | P | | Byloff, "Automatic Control of Video Tape Equipment at NBC, Burbank," bu the National Broadcasting Company, Inc. In 1959. |
| 08/397,636 | P | | Diederich, Werner DT, "Electronic Image and Tone Return Equipment With Switching System and Remote Control Receiver for Television Decoder" |
| 08/397,636 | P | | Gaucher, "Automatic Program Recording System" |
| 08/397,636 | P | | Kazama et al., "Automatic storage and retrieval of video taped programs", 4/79 |
| 08/397,636 | P | | M.W.S.. Barlow, "Automatic Switching in the CBC- An Update" |
| 08/397,636 | P | | Marsden, "Master Control Techniques," v 9 of the "Journal of the Television Society," 1959 |
| 08/397,636 | P | | Millar et al. "Transmission of Alphanumeric Data by Television" |
| 08/397,636 | P | | Schiller et al. "CATV Program Origination and Production" |
| 08/397,636 | P | | Skilton, "The Digitrol 2 - Automatic VTR Programme Control |
| 08/397,636 | P | | Stern, "An Auotmated Programming Control Sysem for Cable TV" |
| 08/397,636 | P | | Yamane et al. "System and apparatus for automatic Monitoring control of Broadcast Circuits" |
| 08/397,636 | P | | Zettl, second edition. "Television Production Handbook" |
| 08/397,636 | U | 3,627,914 | Davies |
| 08/397,636 | U | 3,761,888 | Flynn |
| 08/397,636 | U | 4,742,543 | Fredericksen |
| 08/397,636 | U | 4,472,801 | Huang |
| 08/397,636 | U | 4,251,691 | Kakihara et al. |
| 08/397,636 | U | 4,052,737 | Robertson et al. |
| 08/397,636 | U | 3,755,624 | Sakimoto |
| 08/435,757 | U | 4,052,737 | Robertson et al. |
| 08/437,937 | U | 4,455,570 | Saeki, et al. |
| 08/438,011 | F | DE 2,904,891 | Zaboklicki |
| 08/440,657 | U | 4,052,737 | Robertson et al. |

| Cited in PTO S/N | Type | Document No. | Reference |
|------------------|------|--------------|--|
| 08/441,749 | F | DE 2,904,891 | Zaboklicki |
| 08/441,749 | U | 4,422,093 | Pargee, Jr. |
| 08/441,821 | F | GB 1,370,535 | Millar, et al. |
| 08/441,821 | U | 4,052,737 | Robertson et al. |
| 08/441,880 | P | | Gaines, B.R. and Sams, J., "Minicomputers in Security Dealing," Computer, September, 1976, pp. 6-15. |
| 08/441,942 | U | 4,361,851 | Asip et al. |
| 08/441,942 | U | 4,360,828 | Briggs, Jr. et al |
| 08/441,942 | U | 4,317,215 | Tabata et al. |
| 08/442,369 | U | 4,455,570 | Saeki, et al. |
| 08/442,383 | U | 4,455,570 | Saeki, et al. |
| 08/442,505 | U | 4,251,691 | Kakihara et al. |
| 08/442,505 | U | 4,455,570 | Saeki, et al. |
| 08/442,507 | U | 4,052,737 | Robertson et al. |
| 08/444,643 | U | 4,455,570 | Saeki, et al. |
| 08/444,756 | F | GB 1,370,535 | Millar, et al. |
| 08/444,756 | U | 4,388,664 | Ishman et al. |
| 08/444,757 | F | GB 1,370,535 | Millar, et al. |
| 08/444,757 | U | 4,439,784 | Furukawa et al. |
| 08/444,781 | U | 4,422,093 | Pargee, Jr. |
| 08/444,786 | F | DE 2,904,891 | Zaboklicki |
| 08/444,787 | U | 4,064,490 | Campbell et al. |
| 08/444,887 | U | 4,251,691 | Kakihara et al. |
| 08/445,045 | F | GB 1,370,535 | Millar, et al. |
| 08/445,054 | U | 3,755,624 | Sekimoto |
| 08/445,328 | F | DE 2,904,891 | Zaboklicki |
| 08/446,123 | U | 4,484,218 | Boland et al. |
| 08/446,123 | U | 4,251,691 | Kakihara et al. |
| 08/446,429 | F | JP 55-028691 | Oono, et al. |
| 08/446,429 | U | 4,611,227 | Brockhurst et al. |
| 08/446,429 | U | 4,461,002 | Nanko |
| 08/446,429 | U | 4,422,093 | Pargee, Jr. |
| 08/446,432 | U | 4,052,737 | Robertson et al. |
| 08/446,494 | U | 4,611,227 | Brockhurst et al. |
| 08/446,553 | F | GB 1,370,535 | Millar, et al. |
| 08/446,579 | P | | Gaines, B.R. and Sams, J., "Minicomputers in Security Dealing," Computer, September, 1976, pp. 6-15. |
| 08/446,579 | U | 4,473,824 | Claytor |
| 08/446,579 | U | 3,716,835 | Weinberg |
| 08/447,414 | U | 4,251,691 | Kakihara et al. |
| 08/447,414 | U | 4,422,093 | Pargee, Jr. |
| 08/447,447 | U | 3,990,050 | Kolettis et al. |
| 08/447,449 | U | 4,251,691 | Kakihara et al. |
| 08/447,496 | U | 4,455,570 | Saeki, et al. |
| 08/447,529 | U | 4,567,359 | Lockwood |
| 08/447,529 | U | 4,831,526 | Luchs et al. |
| 08/447,611 | U | 4,251,691 | Kakihara et al. |
| 08/447,621 | U | 4,455,570 | Saeki, et al. |
| 08/447,711 | U | 4,368,486 | Degoulet et al. |

| Cited in PTO S/N | Type | Document No. | Reference |
|------------------|------|--------------|--|
| 08/447,711 | U | 4,439,784 | Furukawa et al. |
| 08/447,711 | U | 3,586,767 | Morchand |
| 08/447,711 | U | 4,343,042 | Schrock et al. |
| 08/447,711 | U | 4,237,486 | Shimp et al. |
| 08/447,711 | U | 3,746,780 | Stetten et al. |
| 08/447,712 | F | DE 2,904,891 | Zaboklicki |
| 08/447,712 | P | | Brown et al., Project SCORE," pp. 624-630, 1960. |
| 08/447,712 | P | | Gaines, B.R. and Sams, J., "Minicomputers in Security Dealing," Computer, September, 1976, pp. 6-15. |
| 08/447,712 | U | 3,387,268 | Epstein |
| 08/447,712 | U | 1,927,702 | Foss |
| 08/447,712 | U | 4,942,616 | Linstroth et al. |
| 08/447,712 | U | 3,648,270 | Metz et al. |
| 08/447,724 | F | GB 1,370,535 | Millar, et al. |
| 08/447,724 | F | DE 2,904,891 | Zaboklicki |
| 08/447,938 | U | 3,143,627 | Germany |
| 08/447,938 | U | 4,251,691 | Kakihara et al. |
| 08/447,974 | F | GB 2,140,963 | Wine |
| 08/447,974 | U | 4,742,516 | Yamaguchi |
| 08/447,977 | F | JP 55-028691 | Oono, et al. |
| 08/447,977 | U | 4,831,526 | Luchs et al. |
| 08/448,099 | F | GB 1,370,535 | Millar, et al. |
| 08/448,116 | U | 4,250,489 | Dudash et al. |
| 08/448,143 | U | 4,831,526 | Luchs et al. |
| 08/448,143 | U | 4,052,737 | Robertson et al. |
| 08/448,143 | U | 4,677,552 | Sibley, Jr. |
| 08/448,251 | F | JP 55-028691 | Oono, et al. |
| 08/448,251 | U | 4,567,359 | Lockwood |
| 08/448,251 | U | 4,831,526 | Luchs et al. |
| 08/448,309 | U | 4,251,691 | Kakihara et al. |
| 08/448,326 | U | 4,455,570 | Saeki, et al. |
| 08/448,667 | F | GB 1,370,535 | Millar, et al. |
| 08/448,915 | U | 3,744,043 | Walden et al. |
| 08/448,917 | U | 4,439,784 | Furukawa et al. |
| 08/448,917 | U | 4,455,570 | Saeki, et al. |
| 08/448,976 | F | DE 2,904,891 | Zaboklicki |
| 08/448,976 | U | 4,682,292 | Bue et al. |
| 08/448,976 | U | 3,754,211 | Rocher et al. |
| 08/448,977 | F | GB 1,370,535 | Millar, et al. |
| 08/448,979 | U | 4,782,387 | Sabri et al. |
| 08/449,097 | U | 4,744,080 | Brennand et al. |
| 08/449,097 | U | 4,636,851 | Drury et al. |
| 08/449,097 | U | 3,244,806 | Morris |
| 08/449,097 | U | 4,706,109 | Murray |
| 08/449,097 | U | 4,748,619 | Vigarie et al. |
| 08/449,097 | U | 3,531,583 | Walker |
| 08/449,263 | U | 4,439,784 | Furukawa et al. |
| 08/449,281 | U | 4,374,437 | Citta et al. |
| 08/449,291 | F | GB 1,370,535 | Millar, et al. |

| Cited in PTO S/N | Type | Document No. | Reference |
|------------------|------|--------------|--|
| 08/449,523 | F | GB 1,370,535 | Millar, et al. |
| 08/449,523 | U | 3,606,688 | Zawels et al. |
| 08/449,531 | U | 4,251,691 | Kakihara et al. |
| 08/449,531 | U | 4,422,093 | Pargee, Jr. |
| 08/449,532 | F | GB 1,370,535 | Millar, et al. |
| 08/449,532 | P | | Davidoff, Frank, "The All-Digital Television Studio," SMPTE Journal, vol. 89, No. 6. |
| 08/449,697 | F | GB 1,370,535 | Millar, et al. |
| 08/449,702 | U | 4,506,387 | Walter |
| 08/449,867 | F | 2,904,981 | Germany |
| 08/449,867 | F | DT 255,024 | Haefner, et al. |
| 08/451,203 | F | DT 255,024 | Haefner, et al. |
| 08/451,203 | F | GB 1,370,535 | Millar, et al. |
| 08/451,203 | F | DE 2,904,891 | Zaboklicki |
| 08/451,203 | U | 4,422,093 | Pargee, Jr. |
| 08/451,377 | U | 4,422,093 | Pargee, Jr. |
| 08/451,746 | F | DE 2,904,891 | Zaboklicki |
| 08/451,746 | U | 3,944,931 | Usami et al. |
| 08/459,216 | F | GB 1,370,535 | Millar, et al. |
| 08/459,216 | P | | Gaines, B.R. and Sams, J., "Minicomputers in Security Dealing," Computer, September, 1976, pp. 6-15. |
| 08/459,216 | U | 3,606,688 | Zawels et al. |
| 08/459,217 | U | 3,676,580 | Beck |
| 08/459,217 | U | 4,052,737 | Robertson et al. |
| 08/459,218 | U | 4,251,691 | Kakihara et al. |
| 08/459,522 | U | 4,809,267 | Higuchi et al. |
| 08/459,788 | U | 4,835,777 | DeLuca, et al. |
| 08/460,043 | U | 3,993,955 | Belcher et al. |
| 08/460,081 | U | 4,680,797 | Benke et al. |
| 08/460,081 | U | 4,343,042 | Schrock et al. |
| 08/460,240 | U | 4,251,691 | Kakihara et al. |
| 08/460,240 | U | 4,422,093 | Pargee, Jr. |
| 08/460,387 | F | RE 32,326 | Nagel et al. |
| 08/460,387 | U | 4,368,483 | Liu |
| 08/460,387 | U | 4,250,521 | Wright |
| 08/460,557 | U | 3,371,071 | Webb |
| 08/460,591 | U | 4,680,797 | Benke et al. |
| 08/460,591 | U | 4,611,227 | Brockhurst et al. |
| 08/460,634 | F | DE 2,904,891 | Zaboklicki |
| 08/460,642 | U | 3,859,458 | Takezawa et al. |
| 08/460,711 | P | | Kaneko et al, "Digital Transmission of Broadcast Television with Reduced Bit Rate." |
| 08/460,711 | U | 4,599,644 | Fischer |
| 08/460,711 | U | 4,317,215 | Tabata et al. |
| 08/460,711 | U | 4,518,989 | Yabiki et al. |
| 08/460,743 | U | 4,464,679 | Wargo |
| 08/460,743 | U | 4,631,585 | Wine |
| 08/460,765 | P | | Crowther, et al. G.O., "TELETEXT RECEIVER LSI DATA ACQUISITION AND CONTROL," 1/13/76, pp 911-915 |
| 08/460,765 | U | 4,814,756 | Chauvel |

| Cited in PTO S/N | Type | Document No. | Reference |
|------------------|------|-----------------|--|
| 08/460,793 | F | DT 255,024 | Haefner, et al. |
| 08/460,793 | F | DE 2,904,891 | Zaboklicki |
| 08/466,887 | U | 4,688,105 | Bloch et al. |
| 08/466,887 | U | 3,627,914 | Davies |
| 08/466,887 | U | 4,396,915 | Farnsworth et al. |
| 08/466,890 | F | 2,904,981 | Germany |
| 08/466,890 | F | DT 25 50 624 A1 | Germany |
| 08/466,890 | U | 4,422,093 | Pargée, Jr. |
| 08/466,894 | U | 3,761,888 | Flynn |
| 08/467,045 | F | GB 959,274 | Germany |
| 08/467,045 | F | WO 80/02093 | Vikene |
| 08/467,045 | U | 4,688,105 | Bloch et al. |
| 08/467,045 | U | 3,627,914 | Davies |
| 08/467,904 | F | GB 959,274 | Germany |
| 08/467,904 | F | AU 74,619 | Hetrich |
| 08/467,904 | F | JP 56-51161 | Kamishima et al. |
| 08/467,904 | P | | Benson, K. B. et al. "CBS New York Video Tape Facilities" |
| 08/467,904 | P | | Byloff, "Automatic Control of Video Tape Equipment at NBC, Burbank," bu the National Broadcasting Company, Inc. In 1959. |
| 08/467,904 | P | | Marsden, "Master Control Techniques," v 9 of the "Journal of the Television Society," 1959 |
| 08/467,904 | P | | Schober, "The WETA Teletext Filed Trial: Some Technical Concerns....." |
| 08/467,904 | P | | Skilton, "The Digitrol 2 - Automatic VTR Programme Control |
| 08/467,904 | P | 74,619 | Yamane et al. |
| 08/467,904 | U | 4,688,105 | Bloch et al. |
| 08/467,904 | U | 3,627,914 | Davies |
| 08/467,904 | U | 3,761,888 | Flynn |
| 08/468,044 | F | GB 959,274 | Germany |
| 08/468,044 | F | AU 74,619 | Hetrich |
| 08/468,044 | F | JP 56-51161 | Kamishima et al. |
| 08/468,044 | P | | Benson, K. B. et al. "CBS New York Video Tape Facilities" |
| 08/468,044 | P | | Byloff, "Automatic Control of Video Tape Equipment at NBC, Burbank," bu the National Broadcasting Company, Inc. In 1959. |
| 08/468,044 | P | | Marsden, "Master Control Techniques," v 9 of the "Journal of the Television Society," 1959 |
| 08/468,044 | P | | Skilton, "The Digitrol 2 - Automatic VTR Programme Control |
| 08/468,044 | P | 74,619 | Yamane et al. |
| 08/468,044 | U | 4,688,105 | Bloch et al. |
| 08/468,044 | U | 3,627,914 | Davies |
| 08/468,044 | U | 4,396,915 | Farnsworth et al. |
| 08/468,044 | U | 3,761,888 | Flynn |
| 08/468,044 | U | 4,774,583 | Kellar |
| 08/468,323 | U | 4,688,105 | Bloch et al. |
| 08/468,324 | F | DE 2,904,891 | Zaboklicki |
| 08/468,736 | F | GB 959,274 | Germany |
| 08/468,736 | U | 4,688,105 | Bloch et al. |
| 08/468,736 | U | 3,627,914 | Davies |
| 08/468,736 | U | 3,586,771 | Hamburger et al. |
| 08/469,056 | U | 4,052,737 | Robertson et al. |

| Cited in PTO S/N | Type | Document No. | Reference |
|------------------|------|--------------|--|
| 08/469,059 | U | 4,688,105 | Bloch et al. |
| 08/469,059 | U | 3,627,914 | Davies |
| 08/469,059 | U | 2,969,427 | See |
| 08/469,059 | U | 4,449,246 | Seiler et al. |
| 08/469,078 | U | 4,688,105 | Bloch et al. |
| 08/469,106 | F | DT 255,024 | Haefner, et al. |
| 08/469,106 | F | DE 2,904,891 | Zaboklicki |
| 08/469,106 | U | 4,422,093 | Pargee, Jr. |
| 08/469,107 | F | 1,556,366 | Betts, UK |
| 08/469,107 | F | GB 959,274 | Germany |
| 08/469,107 | F | GB 1,370,535 | Millar, et al. |
| 08/469,107 | F | DE 2,904,891 | Zaboklicki |
| 08/469,107 | U | 3,008,000 | Morchand |
| 08/469,109 | U | 4,599,644 | Fischer |
| 08/469,355 | F | JP 55-028691 | Oono, et al. |
| 08/469,355 | F | DE 2,904,891 | Zaboklicki |
| 08/469,355 | F | 2,853,764 | Zawels, DE |
| 08/469,355 | P | | Hughes et al., "Some Design Considerations for Home Interactive Terminals, IEEE Transaction on Broadcasting, Vol. BC-17, No. 2, June 1971. |
| 08/469,517 | U | 4,688,105 | Bloch et al. |
| 08/469,517 | U | 4,449,246 | Seiler et al. |
| 08/469,624 | F | 2,904,981 | Germany |
| 08/470,051 | F | DE 2,904,891 | Zaboklicki |
| 08/470,051 | U | 4,422,093 | Pargee, Jr. |
| 08/470,051 | U | 3,606,688 | Zawels et al. |
| 08/470,052 | U | 4,455,570 | Saeki, et al. |
| 08/470,053 | F | WO 80/02093 | Vikene |
| 08/470,053 | U | 4,688,105 | Bloch et al. |
| 08/470,236 | F | GB 959,274 | Germany |
| 08/470,236 | F | WO 80/02093 | Vikene |
| 08/470,236 | P | | C. Gautier, et al., "Automatic Program Recording Systems". |
| 08/470,236 | U | 4,688,105 | Bloch et al. |
| 08/470,447 | F | GB 959,274 | Germany |
| 08/470,447 | F | AU 74,619 | Hetrich |
| 08/470,447 | F | JP 53984 | Jinno, JP |
| 08/470,447 | P | | Byloff, "Automatic Control of Video Tape Equipment at NBC, Burbank," bu the National Broadcasting Company, Inc. In 1959. |
| 08/470,447 | P | | Marsden, "Master Control Techniques," v 9 of the "Journal of the Television Society," 1959 |
| 08/470,447 | P | | Schober, "The WETA Teletext Filed Trial: Some Technical Concerns....." |
| 08/470,447 | P | | Skilton, "The Digitrol 2 - Automatic VTR Programme Control |
| 08/470,447 | P | 74,619 | Yamane et al. |
| 08/470,447 | U | 3,627,914 | Davies |
| 08/470,447 | U | 3,761,888 | Flynn |
| 08/470,476 | F | 2,904,981 | Germany |
| 08/470,570 | P | | Charles Gerrish, "QUBE"- INTERACTIVE VIDEO ON THE MOVE" |
| 08/470,570 | U | 3,627,914 | Davies |

| Cited in PTO S/N | Type | Document No. | Reference |
|------------------|------|--------------|--|
| 08/470,571 | F | GB 1,370,535 | Millar, et al. |
| 08/470,571 | F | DE 2,904,891 | Zaboklicki |
| 08/471,024 | F | GB 1,370,535 | Millar, et al. |
| 08/471,238 | U | 4,422,093 | Pargée, Jr. |
| 08/471,238 | U | 4,455,570 | Saeki, et al. |
| 08/471,238 | U | 4,317,215 | Tabata et al. |
| 08/471,239 | F | AU 74,619 | Hetrich |
| 08/471,239 | F | WO 80/02093 | Vikene |
| 08/471,239 | P | | Benson, K. B. et al. "CBS New York Video Tape Facilities" |
| 08/471,239 | P | | Byloff, "Automatic Control of Video Tape Equipment at NBC, Burbank," by the National Broadcasting Company, Inc. In 1959. |
| 08/471,239 | P | | Transcript of Viewdata '80, first world conference on viewdata, videotex, and teletext, 26-28 March 1980, London. |
| 08/471,239 | U | 4,396,915 | Farnsworth et al. |
| 08/471,239 | U | 4,251,691 | Kakihara et al. |
| 08/471,239 | U | 4,052,737 | Robertson et al. |
| 08/471,240 | F | GB 959,274 | Germany |
| 08/471,240 | F | WO 80/02093 | Vikene |
| 08/471,240 | U | 4,688,105 | Bloch et al. |
| 08/471,240 | U | 3,627,914 | Davies |
| 08/472,066 | U | 4,492,820 | Kennard et al. |
| 08/472,066 | U | 4,415,771 | Martinez |
| 08/472,399 | F | GB 1,370,535 | Millar, et al. |
| 08/472,980 | U | 4,506,387 | Walter |
| 08/473,213 | U | 4,486,853 | Parsons |
| 08/473,484 | U | 4,455,570 | Saeki, et al. |
| 08/473,484 | U | 4,343,042 | Schrock et al. |
| 08/473,996 | U | 4,250,521 | Wright |
| 08/473,997 | F | DE 2,904,891 | Zaboklicki |
| 08/473,998 | F | DE 2,904,891 | Zaboklicki |
| 08/473,998 | U | 4,008,369 | Theurer et al. |
| 08/474,119 | F | DE 2,904,891 | Zaboklicki |
| 08/474,139 | P | | Gaines, B.R. and Sams, J., "Minicomputers in Security Dealing," Computer, September, 1976, pp. 6-15. |
| 08/474,146 | U | 4,422,093 | Pargée, Jr. |
| 08/474,147 | U | 4,455,570 | Saeki, et al. |
| 08/474,496 | U | 4,518,989 | Yabiki et al. |
| 08/474,964 | F | DE 2,904,891 | Zaboklicki |
| 08/477,547 | U | 3,676,580 | Beck |
| 08/477,570 | U | 3,586,767 | Morchand |
| 08/477,805 | U | 4,772,887 | Dunkerton |
| 08/477,955 | F | GB 1,370,535 | Millar, et al. |
| 08/477,955 | U | 4,251,691 | Kakihara et al. |
| 08/477,955 | U | 4,422,093 | Pargée, Jr. |
| 08/478,044 | U | 4,455,570 | Saeki, et al. |
| 08/478,767 | U | 4,052,737 | Robertson et al. |
| 08/478,794 | U | 3,911,419 | Bates et al. |
| 08/478,794 | U | 4,484,218 | Boland et al. |
| 08/478,864 | U | 3,993,955 | Belcher et al. |

| Cited in PTO S/N | Type | Document No. | Reference |
|------------------|------|--------------|--|
| 08/478,864 | U | 4,484,218 | Boland et al. |
| 08/478,864 | U | 4,396,946 | Bond |
| 08/478,864 | U | 4,538,176 | Nakajima et al. |
| 08/478,908 | U | 4,614,971 | Maney et al. |
| 08/479,215 | U | 4,455,570 | Saeki, et al. |
| 08/479,216 | F | GB 1,370,535 | Millar, et al. |
| 08/479,375 | F | GB 1,370,535 | Millar, et al. |
| 08/479,523 | U | 4,455,570 | Saeki, et al. |
| 08/480,740 | U | 3,755,624 | Sekimoto |
| 08/482,573 | F | GB 1,370,535 | Millar, et al. |
| 08/482,573 | P | | Davidoff, Frank, "The All-Digital Television Studio," SMPTE Journal, vol. 89, No. 6. |
| 08/482,574 | U | 4,744,080 | Brennand et al. |
| 08/482,574 | U | 4,636,851 | Drury et al. |
| 08/482,574 | U | 4,782,387 | Sabri et al. |
| 08/482,574 | U | 4,748,619 | Vigarie et al. |
| 08/482,857 | F | 60-146587 | Japan |
| 08/482,857 | U | 4,677,685 | Kurisu |
| 08/483,054 | F | WO 80/02093 | Vikene |
| 08/483,169 | U | 4,455,570 | Saeki, et al. |
| 08/484,858 | U | 4,506,387 | Walter |
| 08/484,865 | F | DE 2,904,891 | Zaboklicki |
| 08/484,865 | U | 4,330,794 | Sherwood |
| 08/485,282 | U | 4,455,570 | Saeki, et al. |
| 08/485,773 | U | 4,052,737 | Robertson et al. |
| 08/485,775 | U | 4,422,093 | Pargee, Jr. |
| 08/486,258 | U | 4,484,218 | Boland et al. |
| 08/486,259 | U | RE 31182 | Crager et al. |
| 08/486,259 | U | 3,627,914 | Davies |
| 08/486,259 | U | 4,500,987 | Hasegawa |
| 08/486,259 | U | 4,472,801 | Huang |
| 08/486,265 | U | 4,422,093 | Pargee, Jr. |
| 08/487,155 | U | 4,580,134 | Campbell et al. |
| 08/487,155 | U | 4,251,691 | Kakihara et al. |
| 08/487,506 | U | 4,052,737 | Robertson et al. |
| 08/487,536 | U | 4,317,215 | Tabata et al. |
| 08/487,556 | F | DE 2,904,891 | Zaboklicki |
| 08/487,565 | U | 4,052,737 | Robertson et al. |
| 08/487,649 | F | DE 3,143,627 | Suhrmann |
| 08/487,649 | F | DE 2,904,891 | Zaboklicki |
| 08/487,649 | P | | McArthur, David "The television as a receive only terminal" |
| 08/487,649 | U | 3,922,482 | Gabriel et al. |
| 08/487,649 | U | 3,008,000 | Morchand |
| 08/487,649 | U | 4,385,324 | Shioda et al. |
| 08/487,981 | F | DE 2,904,891 | Zaboklicki |
| 08/487,982 | F | DE 2,904,891 | Zaboklicki |
| 08/487,984 | F | DE 2,904,891 | Zaboklicki |
| 08/488,058 | F | DE 2,904,891 | Zaboklicki |
| 08/488,058 | U | 3,909,512 | Omori et al. |

| Cited in PTO S/N | Type | Document No. | Reference |
|------------------|------|--------------|---|
| 08/488,058 | U | 4,422,093 | Pargée, Jr. |
| 08/488,383 | U | 4,455,570 | Saeki, et al. |
| 08/488,438 | U | 4,052,737 | Robertson et al. |
| 08/488,619 | P | | Gaines, B.R. and Sams, J., "Minicomputers in Security Dealing," Computer, September, 1976, pp. 6-15. |
| 08/488,620 | U | 4,422,093 | Pargée, Jr. |
| 08/488,620 | U | 4,455,570 | Saeki, et al. |



Serial No. 08/447,974
Docket No. 5634.0145

Appendix D

List of Applicants' prior applications relied upon for an earlier filing date under 35 U.S.C. 120.
37 C.F.R. § 1.98(d).

| App. No. | File Date | Patent No. | Patent Date |
|----------|--------------------|------------|--------------------|
| 317,510 | November 3, 1981 | 4,694,490 | September 15, 1987 |
| 829,531 | February 14, 1986 | 4,704,725 | November 3, 1987 |
| 96,096 | September 11, 1987 | 4,965,825 | October 23, 1990 |
| 588,126 | September 25, 1990 | 5,109,414 | April 28, 1992 |
| 849,226 | March 10, 1992 | 5,233,654 | August 3, 1993 |
| 56,501 | May 3, 1993 | 5,335,277 | August 2, 1994 |



Appendix E

List of prior art not cited in Applicants' related co-pending applications but cited in Applicants' prior applications (see Appendix D) relied upon for an earlier filing date under 35 U.S.C. 120. 37 C.F.R. § 1.98(d).

| PATENT | DATE | NAME | CLASS | FILING DATE |
|-----------|--------------------|------------------|------------|-------------------|
| 2,511,085 | June 13, 1950 | Smith | 381/104 | November 15, 1946 |
| 2,573,349 | October 30, 1951 | Miller et al. | 725/14 | December 9, 1949 |
| 2,769,023 | October 30, 1956 | Loew et al. | 725/143 | January 19, 1950 |
| 2,788,387 | April 9, 1957 | Druz | 380/320 | October 2, 1951 |
| 2,864,865 | December 16, 1958 | Morris | 568/430 | May 4, 1955 |
| 2,866,962 | December 30, 1958 | Ellet | 380/227 | December 6, 1955 |
| 3,016,091 | January 9, 1962 | Daniele | 162/391 | August 11, 1960 |
| 3,071,642 | January 1, 1963 | Mountjoy et al. | 725/151 | February 21, 1957 |
| 3,213,201 | October 19, 1965 | Flood et al. | 370/381 | July 2, 1962 |
| 3,238,297 | March 1, 1966 | Pawley et al. | 380/240 | July 8, 1951 |
| 3,363,250 | January 9, 1968 | Jacobson | 340/825.17 | July 20, 1965 |
| 3,531,586 | September 29, 1970 | Bass et al. | 725/151 | April 19, 1965 |
| 3,536,833 | October 27, 1970 | Guanella | 380/28 | July 8, 1965 |
| 3,569,937 | March 9, 1971 | Hoetter | 340/825.75 | November 6, 1968 |
| 3,573,747 | April 6, 1971 | Adams et al. | 705/37 | February 24, 1969 |
| 3,601,528 | August 24, 1971 | McVoy | 724/143 | June 16, 1969 |
| 3,609,697 | September 28, 1971 | Blevins et al. | 717/2 | October 21, 1968 |
| 3,657,699 | April 18, 1972 | Rocher et al. | 380/265 | June 30, 1970 |
| 3,659,046 | April 5, 1972 | Angeleri et al. | 380/43 | May 13, 1969 |
| 3,693,090 | September 29, 1972 | Gabriel | 725/1 | August 8, 1969 |
| 3,703,684 | November 21, 1972 | McVoy | 725/16 | June 25, 1971 |
| 3,725,672 | April 3, 1973 | Reuter | 327/176 | July 30, 1971 |
| 3,729,581 | April 24, 1973 | Anderson | 348/640 | September 3, 1973 |
| 3,731,197 | May 1, 1973 | Clark | 380/36 | December 15, 1969 |
| 3,736,369 | May 29, 1973 | Vogelman et al. | 380/228 | March 13, 1972 |
| 3,749,845 | July 31, 1973 | Fraser | 370/433 | August 27, 1971 |
| 3,757,225 | September 4, 1973 | Ukicki | 725/1 | March 16, 1972 |
| 3,773,977 | November 20, 1973 | Guanella | 380/36 | June 21, 1971 |
| 3,777,053 | December 4, 1973 | Wittig et al. | 380/228 | May 16, 1972 |
| 3,789,137 | January 29, 1974 | Newell | 386/98 | April 7, 1972 |
| 3,798,359 | March 19, 1974 | Feistel | 380/37 | June 30, 1971 |
| 3,798,610 | March 19, 1974 | Bliss et al. | 709/236 | December 20, 1972 |
| 3,806,814 | April 23, 1974 | Forbes | 725/119 | April 26, 1972 |
| 3,819,852 | June 24, 1974 | Wolf | 348/478 | August 29, 1972 |
| 3,824,332 | July 16, 1974 | Horowitz | 380/222 | February 18, 1972 |
| 3,824,467 | July 16, 1974 | French | 380/35 | December 1, 1972 |
| 3,825,893 | July 23, 1974 | Bossen et al. | 714/757 | May 29, 1973 |
| 3,833,757 | September 3, 1974 | Kirk, Jr. et al. | 725/144 | April 10, 1972 |
| 3,835,387 | September 10, 1974 | Rookes et al. | 725/151 | November 15, 1972 |
| 3,842,196 | October 15, 1974 | Loughlin. | 348/486 | November 12, 1973 |
| 3,845,391 | October 29, 1974 | Crosby | 455/39 | July 15, 1971 |
| 3,882,392 | May 6, 1975 | Harney | 725/79 | January 29, 1973 |

| PATENT | DATE | NAME | CLASS | FILING DATE |
|-----------|--------------------|--------------------|------------|--------------------|
| 3,890,461 | June 17, 1975 | Vogelman et al. | 380/228 | March 27, 1973 |
| 3,891,792 | June 24, 1975 | Kimura | 348/622 | June 25, 1974 |
| 3,893,031 | July 1, 1975 | Majeau et al. | 380/274 | November 8, 1972 |
| 3,894,176 | July 8, 1995 | Mellon | 380/230 | 178/5.1 |
| 3,899,633 | August 12, 1975 | Sorenson et al. | 380/207 | May 12, 1972 |
| 3,911,216 | October 7, 1975 | Bartek et al. | 380/46 | December 17, 1973 |
| 3,914,534 | October 21, 1975 | Forbes | 380/220 | October 29, 1973 |
| 3,916,091 | October 28, 1975 | Kirk, Jr. et al. | 380/242 | January 31, 1973 |
| 3,919,462 | November 11, 1975 | Hartung et al. | 380/235 | August 15, 1973 |
| 3,921,151 | November 18, 1975 | Guanella | 380/36 | July 12, 1973 |
| 3,934,079 | January 20, 1976 | Barnhart | 725/131 | October 26, 1973 |
| 3,936,593 | February 3, 1976 | Aaronson et al. | 380/219 | August 5, 1974 |
| 3,936,594 | February 3, 1976 | Schubin et al. | 380/238 | August 5, 1974 |
| 3,949,313 | April 6, 1976 | Tamada et al. | 341/50 | May 28, 1974 |
| 3,956,615 | May 11, 1976 | Anderson et al. | 705/72 | June 25, 1974 |
| 3,970,790 | July 20, 1976 | Guanella | 380/36 | March 7, 1974 |
| 3,978,449 | August 31, 1976 | Sanders et al. | 714/823 | January 27, 1975 |
| 3,987,398 | October 19, 1976 | Fung | 725/127 | July 5, 1974 |
| 3,988,528 | October 26, 1976 | Yanagimachi et al. | 348/24 | August 27, 1973 |
| 3,997,718 | December 14, 1976 | Ricketts et al. | 725/114 | November 11, 1974 |
| 4,024,574 | May 17, 1977 | Nieson | 380/232 | February 26, 1975 |
| 4,025,947 | May 24, 1977 | Michael | 348/705 | May 28, 1974 |
| 4,025,948 | May 24, 1977 | Loshin | 380/228 | February 25, 1975 |
| 4,048,619 | September 13, 1977 | Forman, Jr. et al. | 370/485 | September 17, 1976 |
| 4,049,906 | September 20, 1977 | Hafner et al. | 178/2C | April 21, 1976 |
| 4,058,830 | November 15, 1977 | Gulnet et al. | 380/212 | June 3, 1976 |
| 4,068,264 | January 10, 1978 | Pires | 380/233 | July 19, 1976 |
| 4,079,419 | March 14, 1978 | Siegle et al. | 348/732 | October 29, 1975 |
| 4,081,612 | March 28, 1978 | Hafner | 370/393 | July 14, 1976 |
| 4,081,753 | March 28, 1978 | Miller | 455/158.2 | December 13, 1976 |
| 4,091,417 | May 23, 1978 | Nieson | 380/232 | February 23, 1977 |
| 4,104,486 | August 1, 1978 | Martin et al. | 379/106.06 | June 29, 1976 |
| 4,112,464 | September 5, 1978 | Gulf et al. | 380/241 | May 11, 1977 |
| 4,115,662 | September 19, 1978 | Gulnet et al. | 380/212 | September 6, 1977 |
| 4,115,807 | September 19, 1978 | Pires | 380/233 | November 1, 1976 |
| 4,120,030 | October 10, 1978 | Johnstine | 713/190 | March 11, 1977 |
| 4,130,833 | December 19, 1978 | Choenet | 380/220 | April 11, 1977 |
| 4,138,726 | February 26, 1979 | Girault et al. | 345/113 | June 29, 1977 |
| 4,160,120 | July 3, 1979 | Barnes et al. | 380/29 | November 17, 1977 |
| 4,161,751 | July 17, 1979 | Ost | 725/25 | May 19, 1977 |
| 4,163,254 | July 31, 1979 | Block et al. | 380/233 | February 14, 1977 |
| 4,163,255 | July 31, 1979 | Pires | 380/233 | June 15, 1978 |
| 4,168,396 | September 18, 1979 | Best | 713/190 | October 31, 1977 |
| 4,170,782 | October 9, 1979 | Miller | 725/14 | October 28, 1977 |
| 4,171,513 | October 16, 1979 | Otey et al. | 380/43 | July 22, 1969 |
| 4,172,213 | October 23, 1979 | Barnes et al. | 380/29 | November 17, 1977 |
| 4,186,413 | January 29, 1980 | Mortimer | 348/473 | November 14, 1977 |
| 4,196,310 | April 1, 1980 | Forman et al. | 380/46 | November 3, 1977 |
| 4,200,770 | April 29, 1980 | Hellman et al. | 380/30 | September 6, 1977 |

| PATENT | DATE | NAME | CLASS | FILING DATE |
|-----------|--------------------|--------------------|------------|--------------------|
| 4,200,913 | April 29, 1980 | Kuhar et al. | 341/23 | April 13, 1977 |
| 4,215,366 | July 29, 1980 | Davidson | 380/235 | April 24, 1979 |
| 4,215,370 | July 29, 1980 | Kirk, Jr. | 375/240.01 | February 22, 1978 |
| 4,225,967 | September 3, 1980 | Miwa et al. | 455/68 | January 9, 1978 |
| 4,232,193 | November 4, 1980 | Gerard | 380/36 | May 3, 1978 |
| 4,236,217 | November 25, 1980 | Kennedy | 702/61 | April 20, 1979 |
| 4,237,484 | December 2, 1980 | Brown et al. | 375/240.12 | August 8, 1979 |
| 4,247,106 | January 27, 1981 | Jeffers et al. | 463/29 | April 12, 1978 |
| 4,250,524 | February 10, 1981 | Tomizawa | 380/232 | February 22, 1979 |
| 4,253,114 | February 24, 1981 | Tang et al. | 380/212 | September 26, 1978 |
| 4,253,157 | February 24, 1981 | Kirschner et al. | 707/104 | September 29, 1978 |
| 4,262,329 | April 14, 1981 | Bright et al. | 713/164 | March 27, 1978 |
| 4,264,925 | April 28, 1981 | Freeman et al. | 725/138 | August 13, 1979 |
| 4,266,243 | May 5, 1981 | Shutterly | 380/236 | April 25, 1979 |
| 4,275,411 | June 23, 1981 | Lippel | 348/472 | April 19, 1978 |
| 4,283,602 | August 11, 1981 | Adams et al. | 380/41 | September 23, 1968 |
| 4,284,976 | August 18, 1981 | Gable et al. | 340/825.43 | June 7, 1979 |
| 4,286,281 | August 25, 1981 | Suzuki | 386/12 | September 26, 1979 |
| 4,287,592 | September 1, 1981 | Paulish et al. | 370/403 | May 23, 1979 |
| 4,288,809 | September 8, 1981 | Yabe | 348/468 | May 21, 1980 |
| 4,290,141 | September 15, 1981 | Anderson et al. | 725/24 | July 2, 1979 |
| 4,295,223 | October 13, 1981 | Shutterly | 455/72 | April 25, 1979 |
| 4,302,771 | November 24, 1981 | Gargini | 725/119 | July 23, 1980 |
| 4,304,990 | December 8, 1981 | Atalla | 380/45 | February 4, 1980 |
| 4,305,131 | December 8, 1981 | Best | 345/327 | March 31, 1980 |
| 4,306,289 | December 15, 1981 | Lumley | 713/190 | February 4, 1980 |
| 4,306,305 | December 15, 1981 | Doi et al. | 714/755 | October 19, 1979 |
| 4,307,446 | December 22, 1981 | Barton et al. | 710/131 | May 2, 1979 |
| 4,310,854 | January 12, 1982 | Baer | 348/484 | August 28, 1979 |
| 4,312,016 | January 19, 1982 | Glaab et al. | 348/706 | February 2, 1979 |
| 4,313,132 | January 26, 1982 | Doles et al. | 725/26 | October 31, 1979 |
| 4,314,367 | February 2, 1982 | Bakka et al. | 370/422 | January 17, 1980 |
| 4,316,055 | February 16, 1982 | Feistel | 380/37 | December 30, 1976 |
| 4,316,245 | February 16, 1982 | Luu et al. | 709/106 | December 7, 1978 |
| 4,318,125 | March 2, 1982 | Shutterly | 380/236 | April 25, 1979 |
| 4,319,079 | March 9, 1982 | Best | 713/190 | January 17, 1980 |
| 4,322,745 | March 30, 1982 | Saeki et al. | 380/242 | March 21, 1980 |
| 4,323,921 | April 6, 1982 | Guillou | 705/53 | January 23, 1980 |
| 4,323,922 | January 6, 1982 | de Toonder et al. | 380/226 | December 17, 1979 |
| 4,325,078 | April 13, 1982 | Seatom et al. | 380/230 | November 20, 1979 |
| 4,329,675 | May 11, 1982 | Van Hulle | 725/32 | September 23, 1980 |
| 4,329,684 | May 11, 1982 | Monteath et al. | 345/180 | January 15, 1980 |
| 4,332,980 | June 1, 1982 | Reynolds et al. | 370/259 | May 30, 1980 |
| 4,334,242 | June 8, 1982 | Mangold | 386/46 | January 14, 1980 |
| 4,336,553 | June 22, 1982 | den Toonder et al. | 380/206 | May 14, 1980 |
| 4,336,559 | June 22, 1982 | Koyama et al. | 260/73.05 | November 9, 1978 |
| 4,337,480 | June 29, 1982 | Bourassin et al. | 348/552 | February 8, 1980 |
| 4,338,628 | July 6, 1982 | Payne et al. | 380/213 | December 19, 1979 |
| 4,339,798 | July 13, 1982 | Hedges et al. | 463/26 | December 17, 1979 |

| PATENT | DATE | NAME | CLASS | FILING DATE |
|-----------|--------------------|--------------------|------------|--------------------|
| 4,340,903 | July 20, 1982 | Tamura | 348/187 | August 6, 1980 |
| 4,347,498 | August 31, 1982 | Lee et al. | 340/825.02 | November 21, 1979 |
| 4,347,532 | August 31, 1982 | Korver | 348/565 | October 14, 1980 |
| 4,353,088 | October 5, 1982 | den Toonder et al. | 380/206 | May 14, 1980 |
| 4,354,201 | October 12, 1982 | Sechet et al. | 380/228 | June 11, 1980 |
| 4,361,877 | November 30, 1982 | Dyer et al. | 702/176 | February 5, 1980 |
| 4,364,081 | December 14, 1982 | Hashimoto et al. | 348/617 | April 16, 1981 |
| 4,365,110 | December 21, 1982 | Lee et al. | 380/28 | June 5, 1979 |
| 4,367,548 | January 4, 1983 | Cotten, Jr. et al. | 359/125 | April 10, 1980 |
| 4,367,557 | January 4, 1983 | Stern et al. | 725/149 | May 25, 1979 |
| 4,375,579 | March 1, 1983 | Davida et al. | 380/28 | January 30, 1980 |
| 4,375,651 | March 1, 1983 | Templin et al. | 348/731 | July 27, 1981 |
| 4,379,205 | April 5, 1983 | Wynner | 380/28 | June 22, 1979 |
| 4,388,643 | June 14, 1983 | Aminetzah | 380/239 | April 6, 1981 |
| 4,388,645 | June 14, 1983 | Cox et al. | 348/468 | April 13, 1981 |
| 4,389,671 | June 21, 1983 | Posner et al. | 380/235 | September 29, 1980 |
| 4,390,898 | June 28, 1983 | Bond et al. | 380/241 | March 23, 1981 |
| 4,394,691 | July 19, 1983 | Amano et al. | 348/734 | July 30, 1981 |
| 4,394,762 | July 19, 1981 | Nabeshima | 714/758 | January 6, 1981 |
| 4,395,757 | July 26, 1983 | Bienvenu et al. | 709/104 | April 14, 1981 |
| 4,396,947 | August 2, 1983 | Cheung | 380/222 | March 26, 1980 |
| 4,398,216 | August 9, 1983 | Field et al. | 380/238 | September 19, 1980 |
| 4,400,587 | August 23, 1983 | Taylor et al. | 379/113 | August 25, 1981 |
| 4,405,942 | September 20, 1983 | Block et al. | 380/214 | March 3, 1982 |
| 4,410,917 | October 18, 1983 | Newdoll et al. | 360/15 | September 14, 1981 |
| 4,413,339 | November 1, 1983 | Riggie et al. | 714/765 | July 24, 1981 |
| 4,424,532 | January 3, 1984 | den Toonder et al. | 380/226 | May 9, 1983 |
| 4,425,581 | January 10, 1984 | Schweppe et al. | 348/510 | April 17, 1981 |
| 4,433,207 | February 21, 1984 | Best | 713/190 | September 10, 1981 |
| 4,434,323 | February 28, 1984 | Levine et al. | 380/260 | June 29, 1981 |
| 4,434,436 | February 28, 1984 | Kleykamp et al. | 380/209 | July 13, 1981 |
| 4,434,464 | February 28, 1984 | Suzuki et al. | 711/164 | March 31, 1981 |
| 4,446,519 | May 1, 1984 | Thomas | 711/164 | May 26, 1981 |
| 4,467,139 | August 21, 1984 | Mollier | 713/181 | March 12, 1981 |
| 4,467,356 | August 21, 1984 | McCoy | 348/385.1 | September 24, 1981 |
| 4,471,163 | September 11, 1984 | Donald et al. | 705/55 | October 5, 1981 |
| 4,471,164 | September 11, 1984 | Henry | 380/30 | October 13, 1981 |
| 4,475,123 | October 2, 1984 | Dumbauld et al. | 380/211 | April 2, 1981 |
| 4,513,174 | April 23, 1985 | Herman | 711/214 | March 19, 1981 |
| 4,528,588 | July 9, 1985 | Lofberg | 340/5.1 | May 18, 1982 |
| 4,528,589 | July 9, 1985 | Block et al. | 380/241 | February 1, 1984 |
| 4,593,353 | June 3, 1986 | Pickholtz | 705/55 | October 26, 1981 |
| 4,598,288 | July 1, 1986 | Yarbrough et al. | 340/5.74 | December 20, 1983 |
| 4,689,661 | August 25, 1987 | Barbieri et al. | 375/240.01 | June 22, 1981 |
| 4,706,282 | November 10, 1987 | Knowd | 713/168 | December 23, 1985 |
| 4,908,713 | March 13, 1990 | Levine | 386/83 | June 29, 1988 |
| 4,963,994 | October 16, 1990 | Levine | 386/83 | February 23, 1990 |
| RE 31735 | November 13, 1984 | Davidson | 380/235 | July 26, 1982 |